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CIDS No. 3

Comprehensive Summary Report
A Proposed
Chemical Information and Data System

Volume 2

Clarence T. Van Meter, David Lefkovitz,
Samuel D. Bedrosian

December 1965



US Army Edgewood Arsenal
Chemical Research and Development Laboratories
Edgewood Arsenal, Maryland 21010

Contract No. DA18-035-AMC-288(A)

Institute for Cooperative Research
University of Pennsylvania
Philadelphia, Pennsylvania 19104

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COMPREHENSIVE SUMMARY REPORT
ON A PROPOSED
CHEMICAL INFORMATION AND DATA SYSTEM

Volume 2
Detail Flow Charts

Clarence T. Van Meter, David Lefkovitz,
Samuel D. Bedrosian

December 1965

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CHEMICAL RESEARCH AND DEVELOPMENT LABORATORIES
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Task 2P02301A72002

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Philadelphia, Pennsylvania 19104

FOREWORD

The work described in this report was authorized under Task 2P231A72002, Army Chemical Information and Data Systems (U). The work was started in July 1964 and information contained in this report covers work accomplished through 31 December 1965.

Volume 2, which is limited in distribution, supplements Volume 1 by providing detailed flow charts of the computer programs.

Acknowledgments

The authors were assisted in the preparation of this report by Ruth Powers, Thomas Angell, Stella Derksen, James Gerber, Robert Graf, Richard Haber, Arnold Karush, Ronald Kent, John Leggett, Morris Plotkin, David Sherr and Paul Weinberg.

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When this document has served its purpose, DESTROY it.

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COMPREHENSIVE SUMMARY REPORT
ON A PROPOSED
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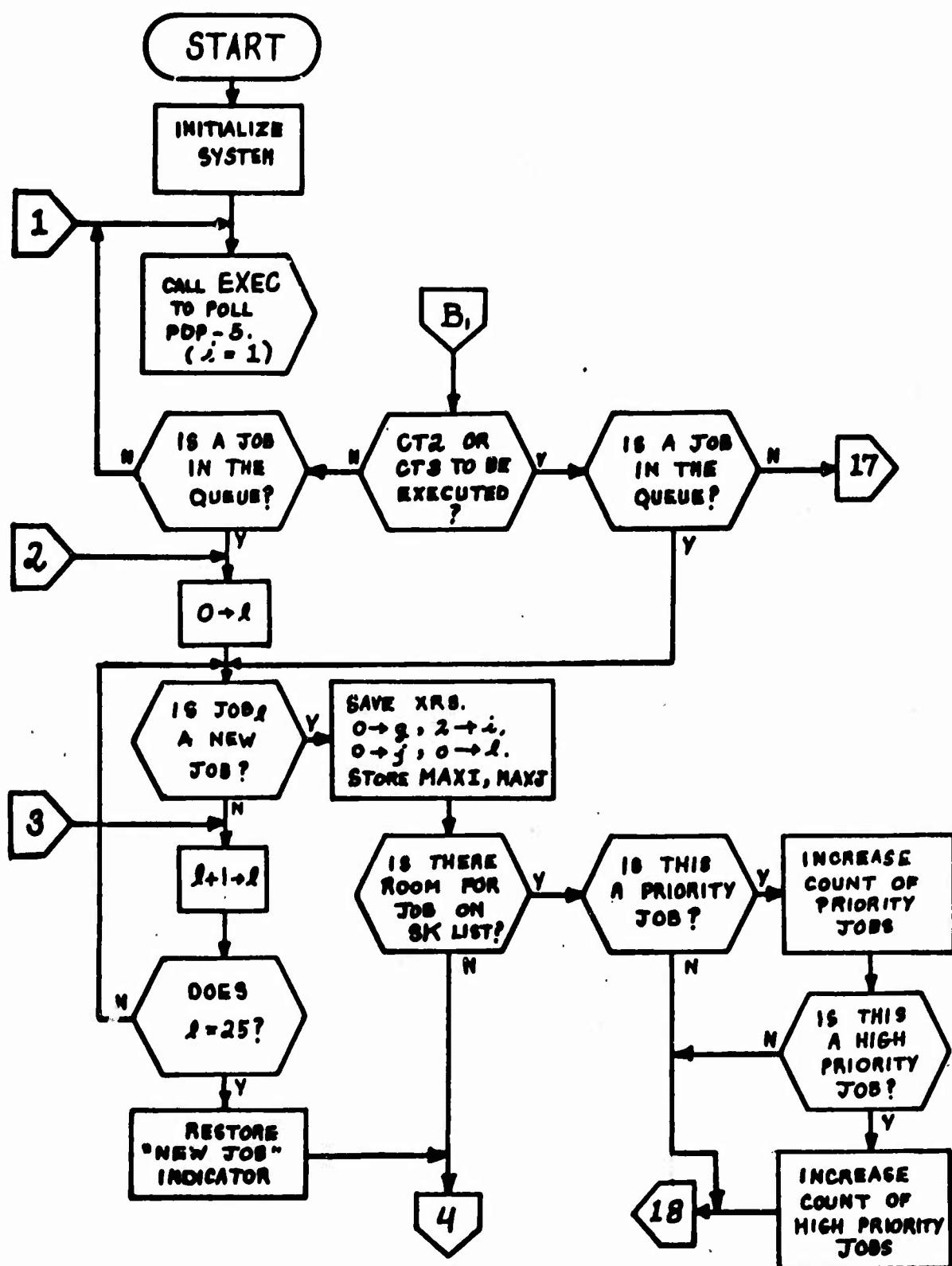
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INTRODUCTION

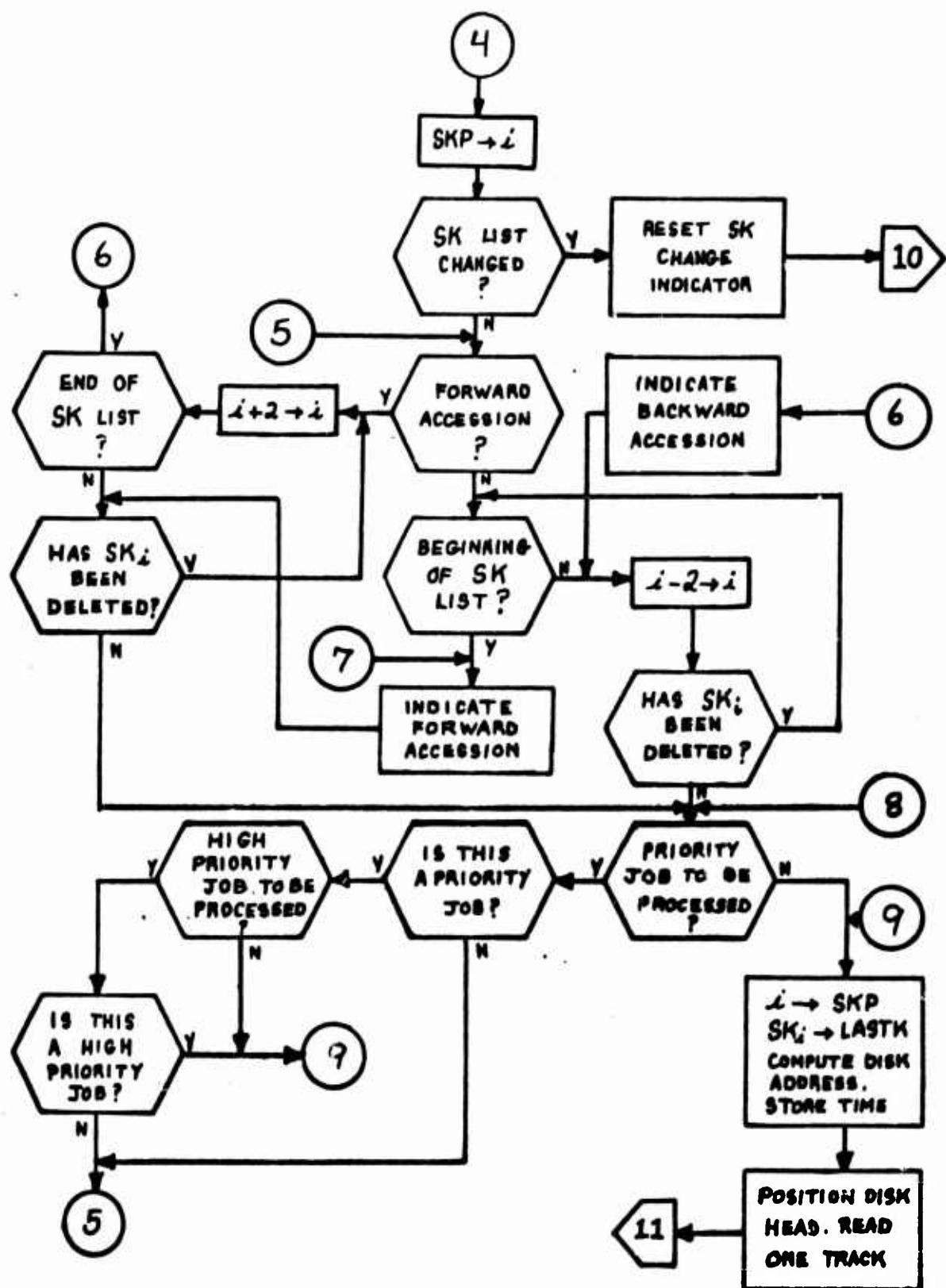
This is the second volume of the comprehensive summary report on work performed under a contract between the United States Army Edgewood Arsenal and the Trustees of the University of Pennsylvania involving research and exploratory development studies for a United States Army CIDS (Chemical Information and Data System) Program.

The purpose of this volume is to present, on a more detailed level, the computer programs which comprise the automated portion of the experimental CIDS. It consists of micro flow charts of the programs described in Sections 3.4 and 3.5 of Volume 1 of this report. This material is presented in a separate volume since its value will be limited to those persons interested in a more intimate study of the individual programs.

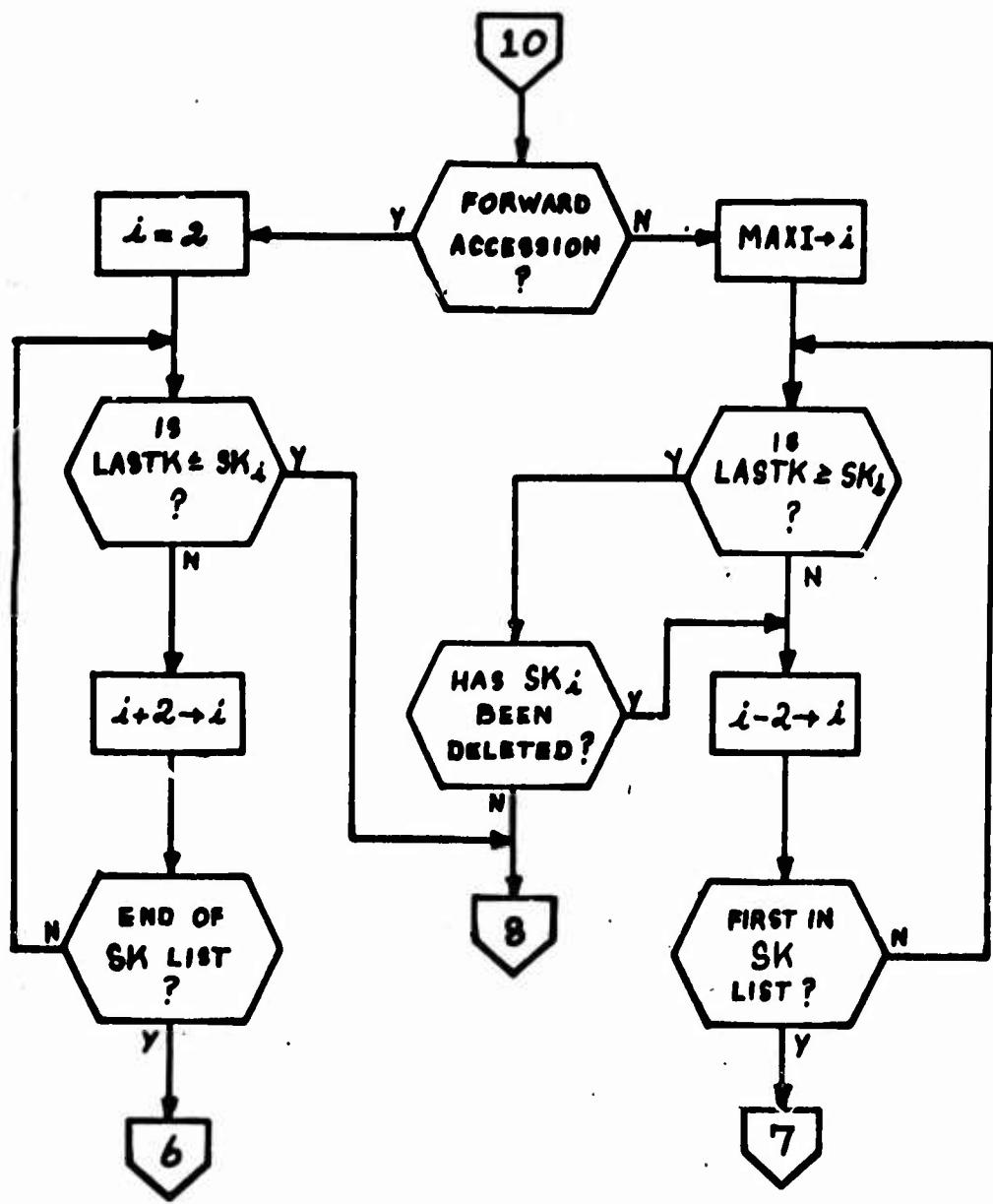
Each program is named in the Table of Contents with a reference to the particular section in Volume 1 which discusses it. Attention is directed to Appendix B of Volume 1 which explains the flow charting symbols and conventions employed.



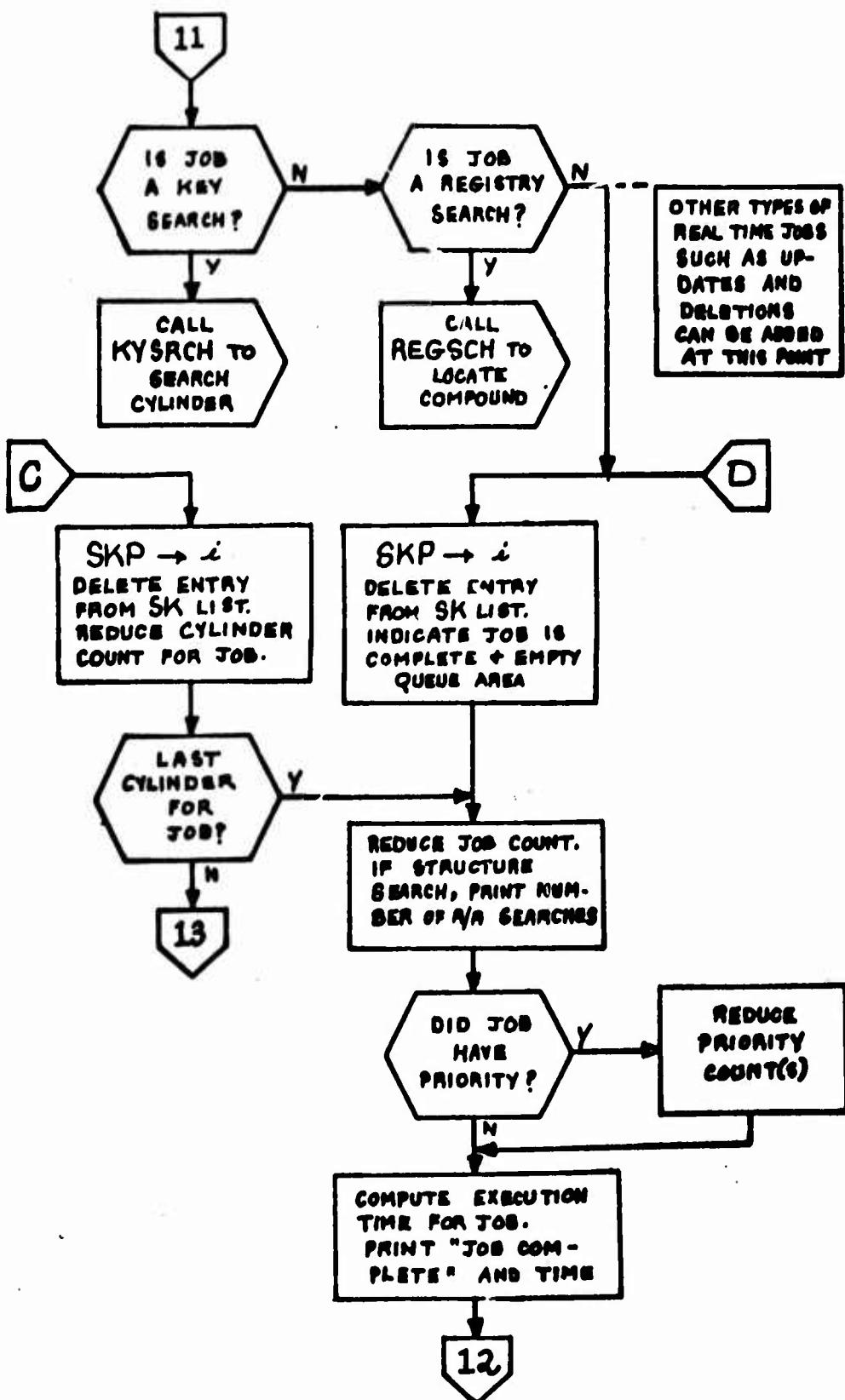
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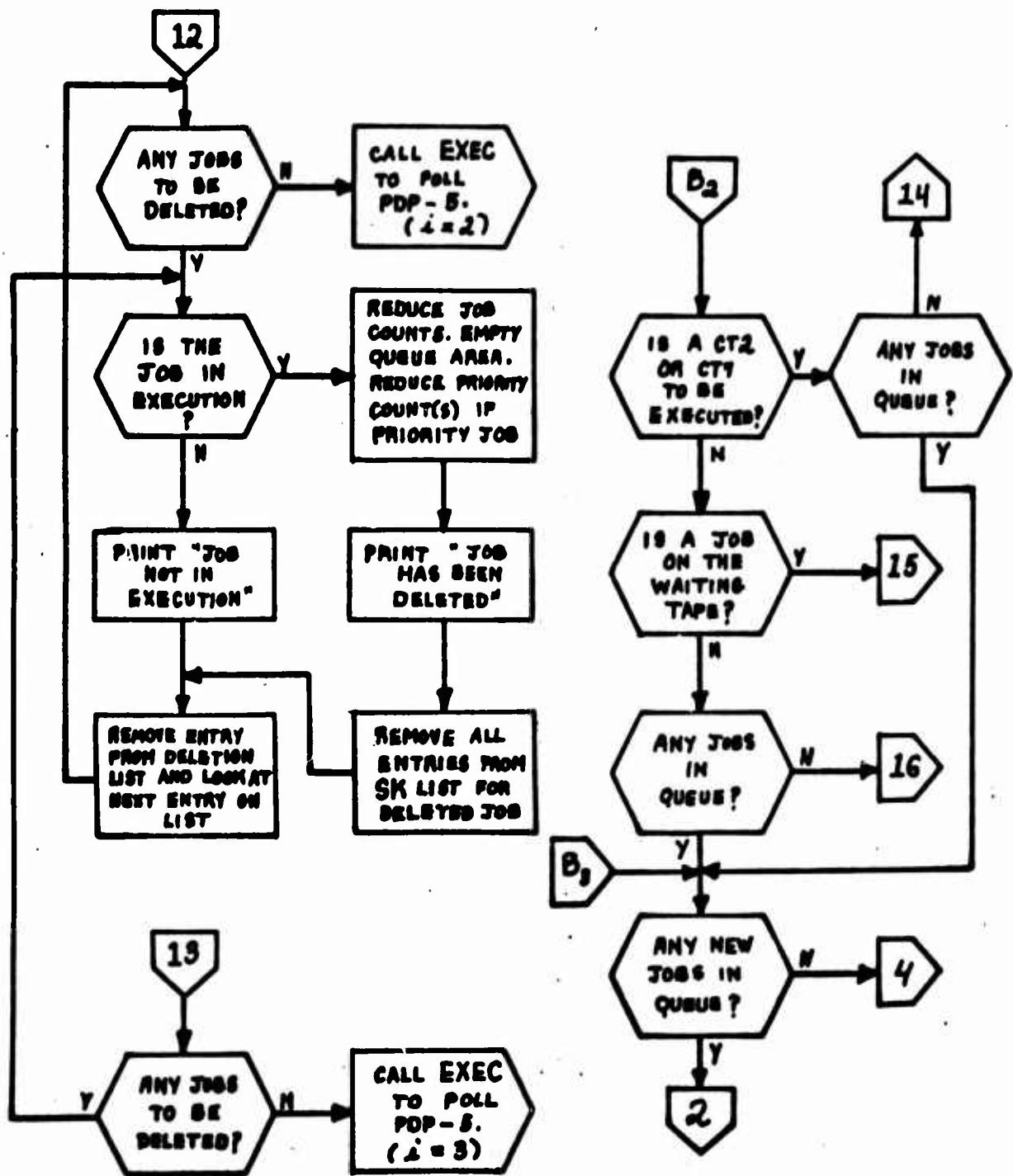
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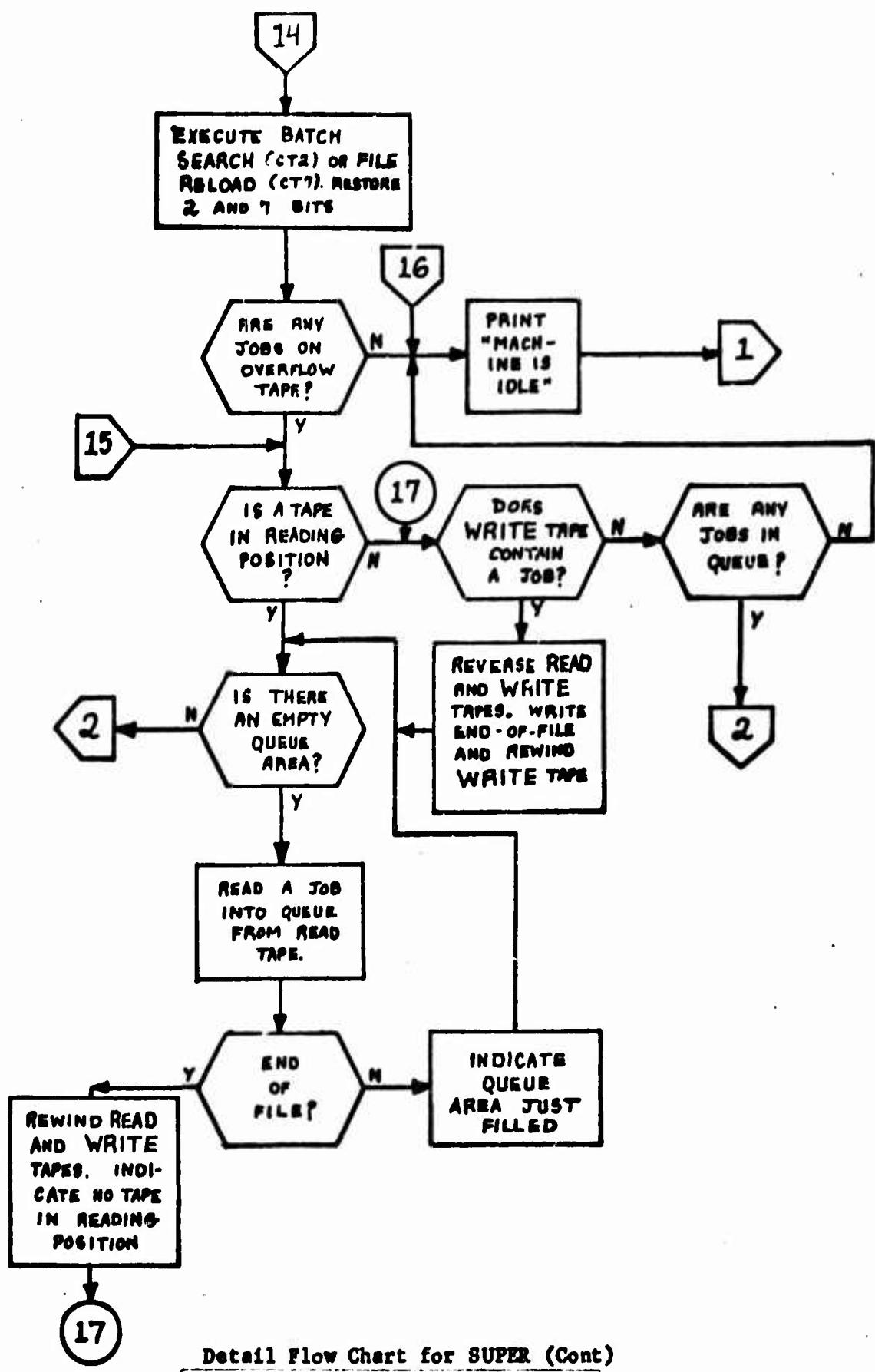
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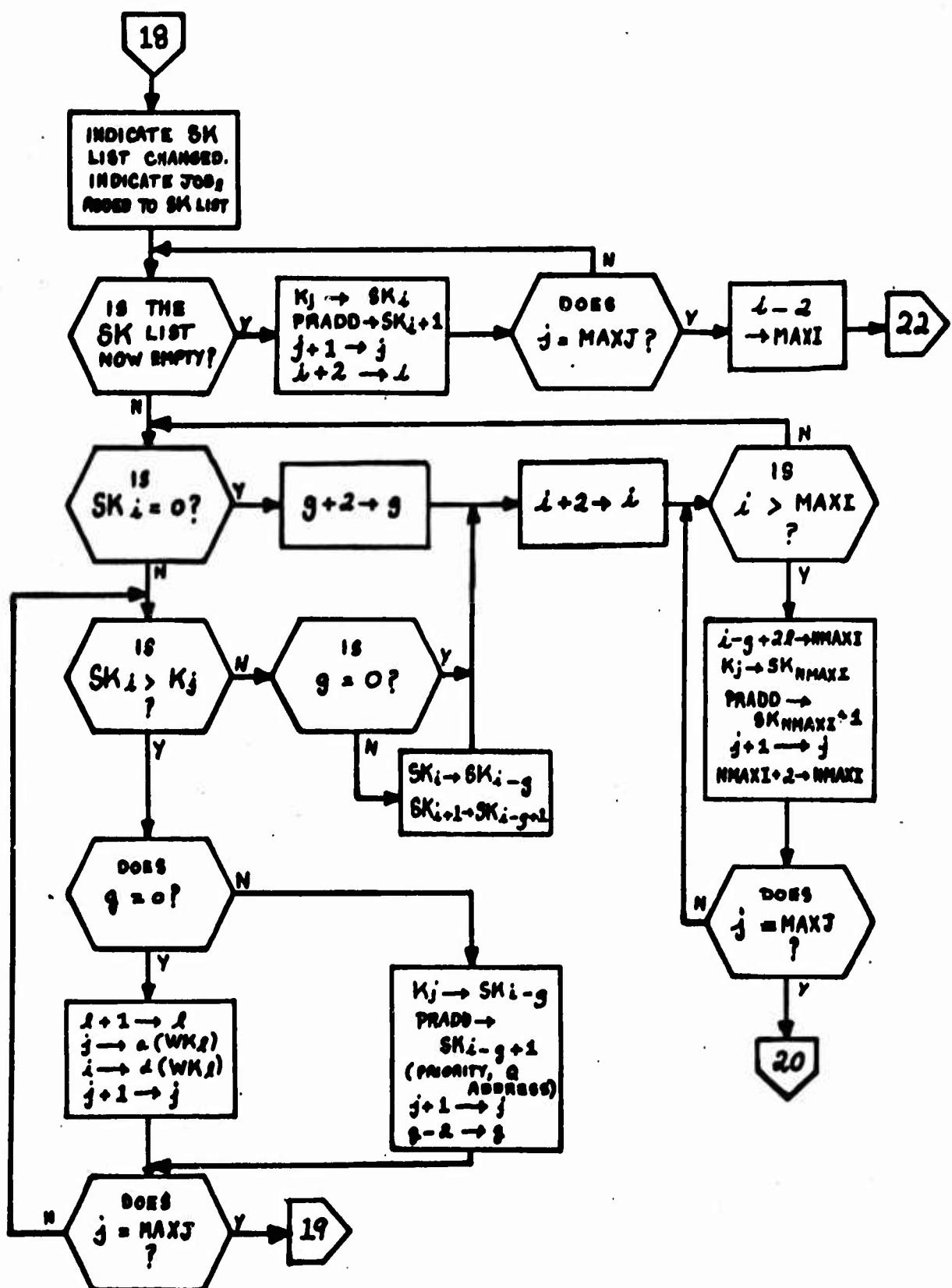
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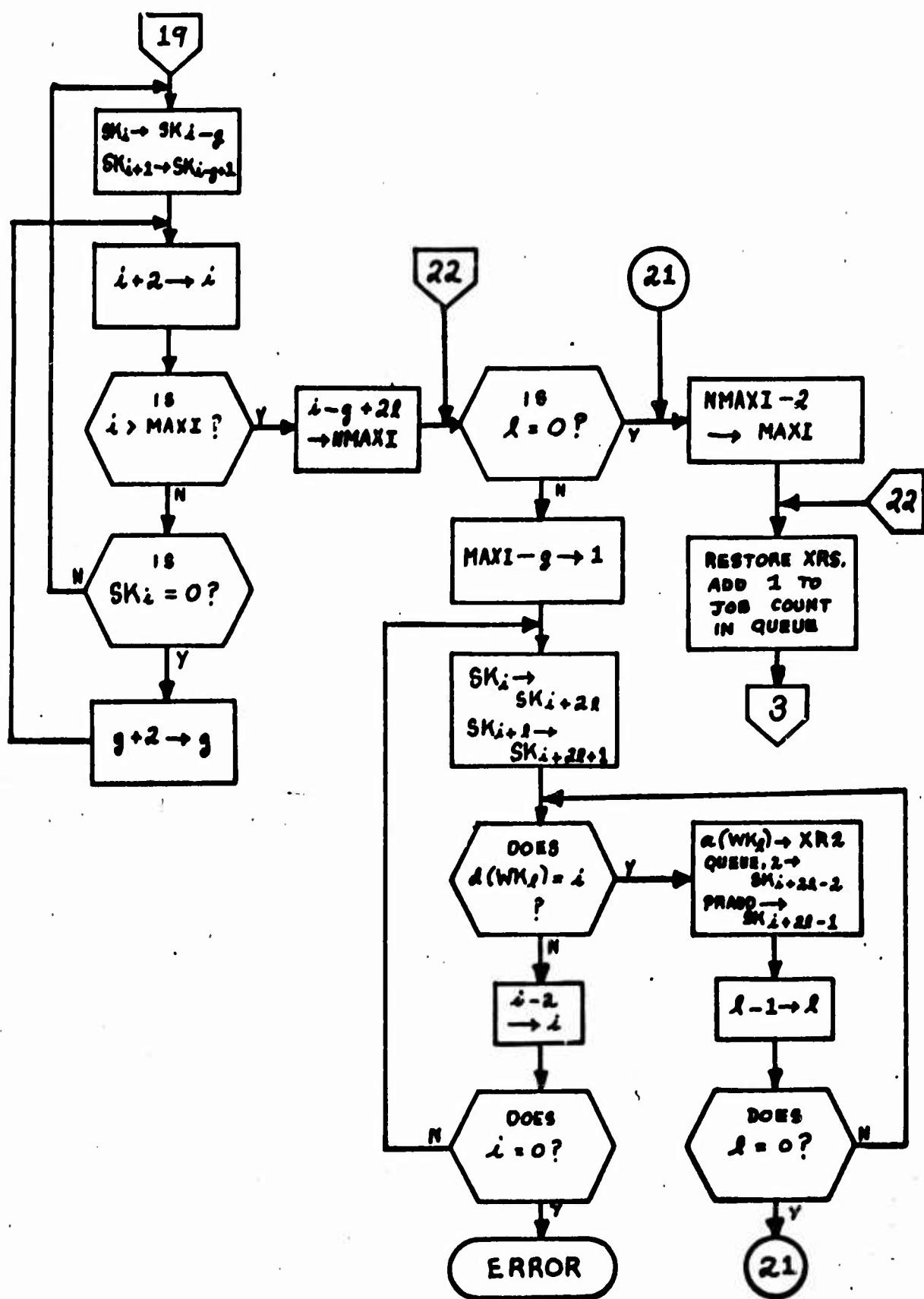
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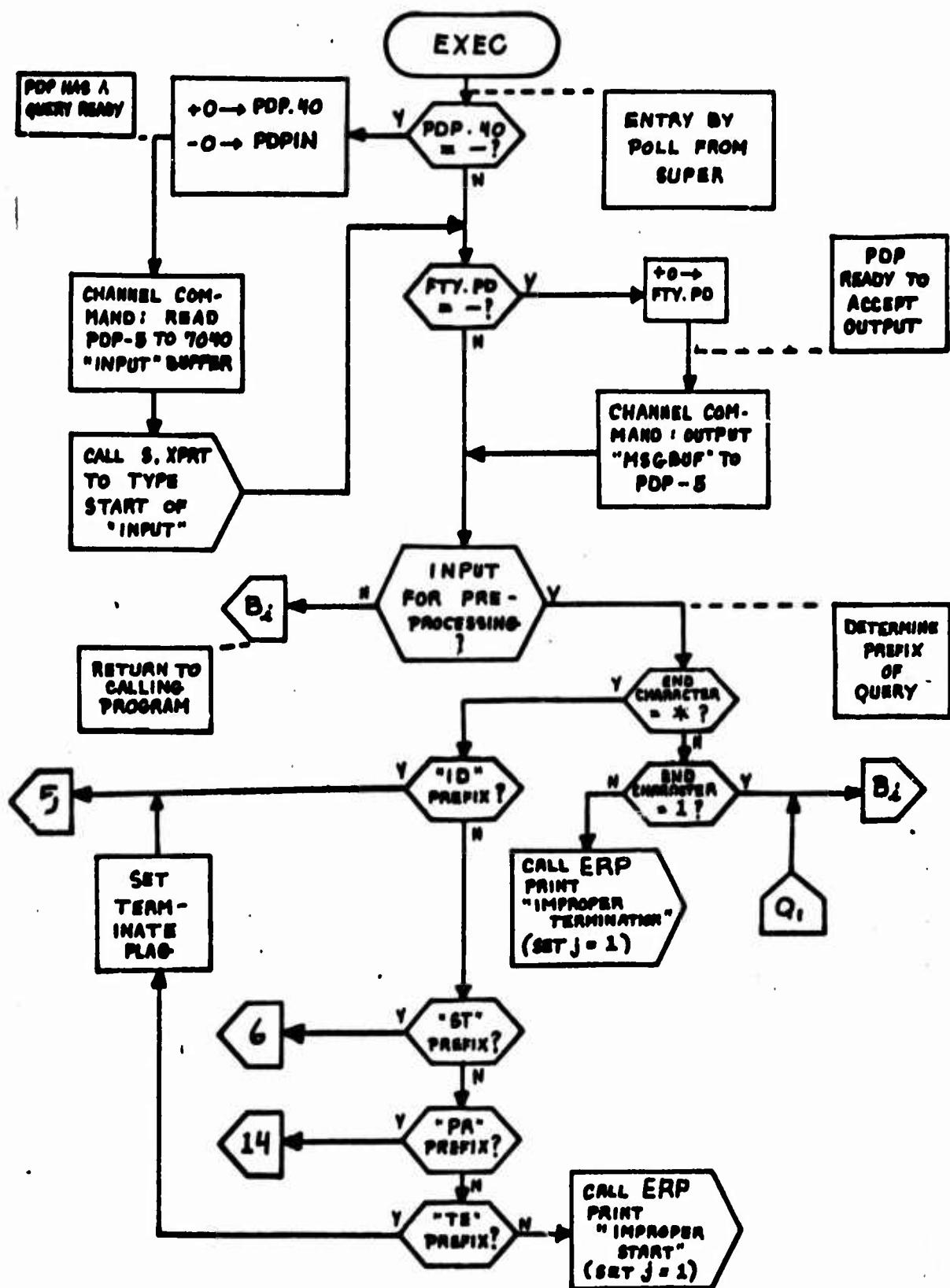
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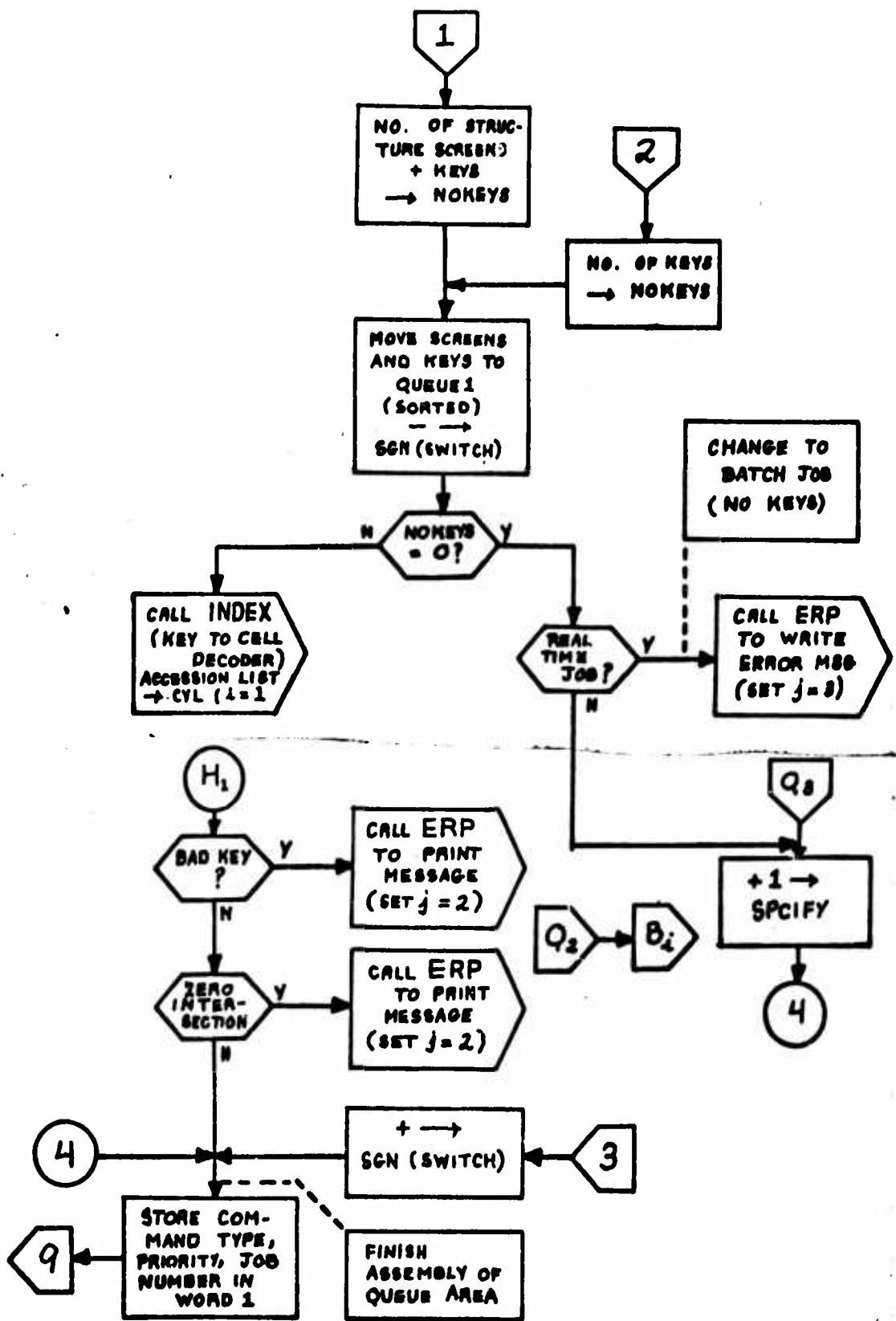


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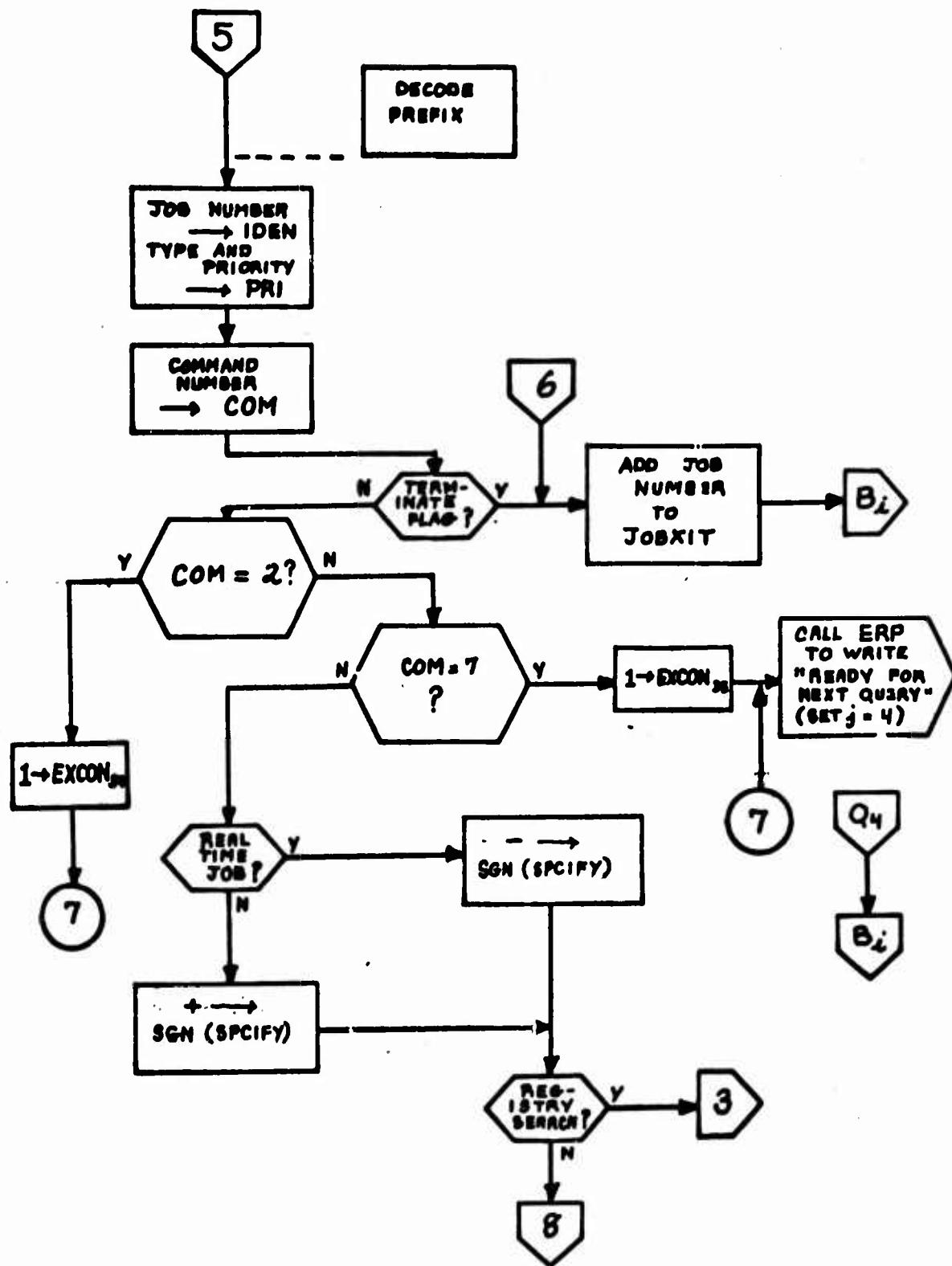


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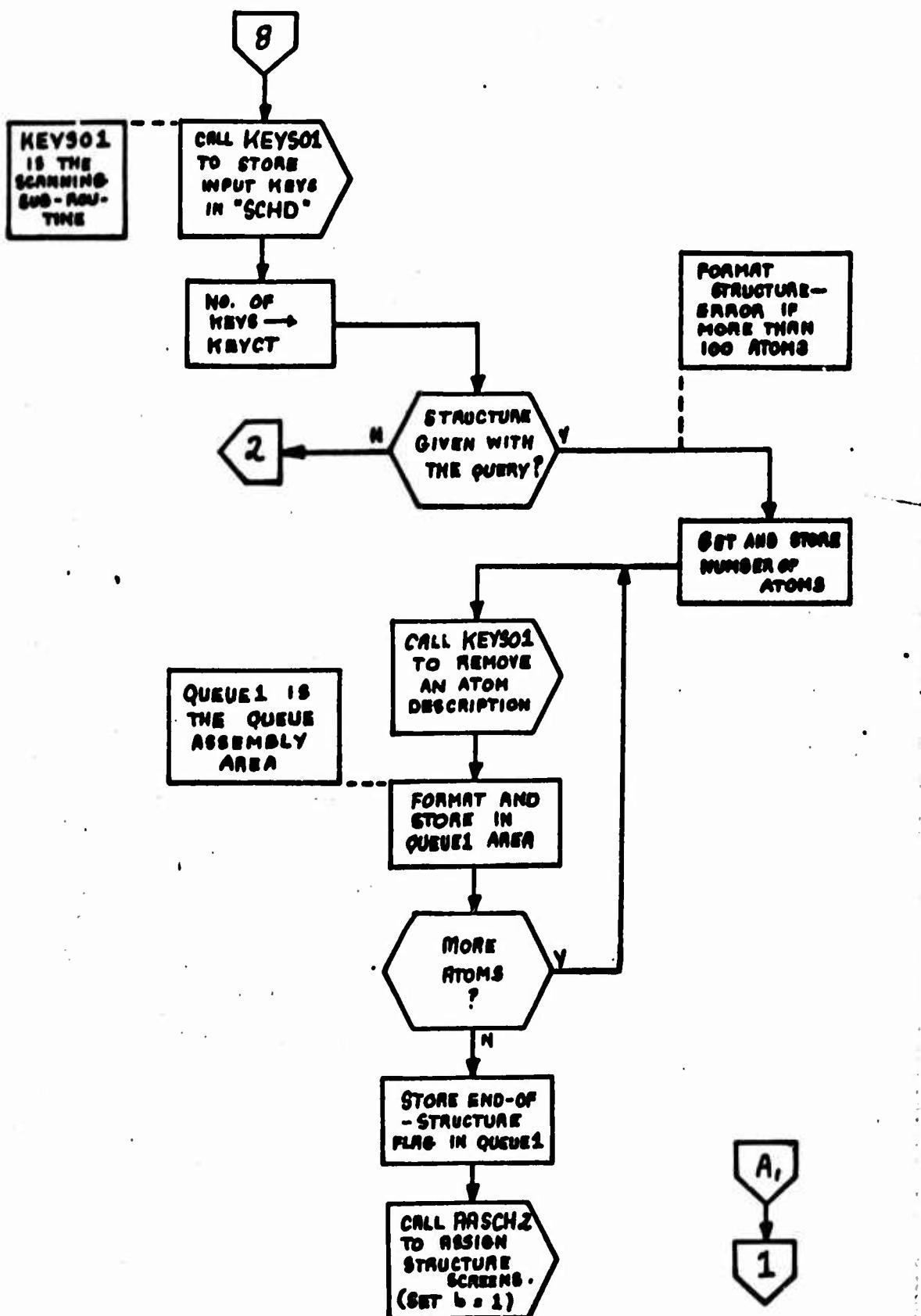




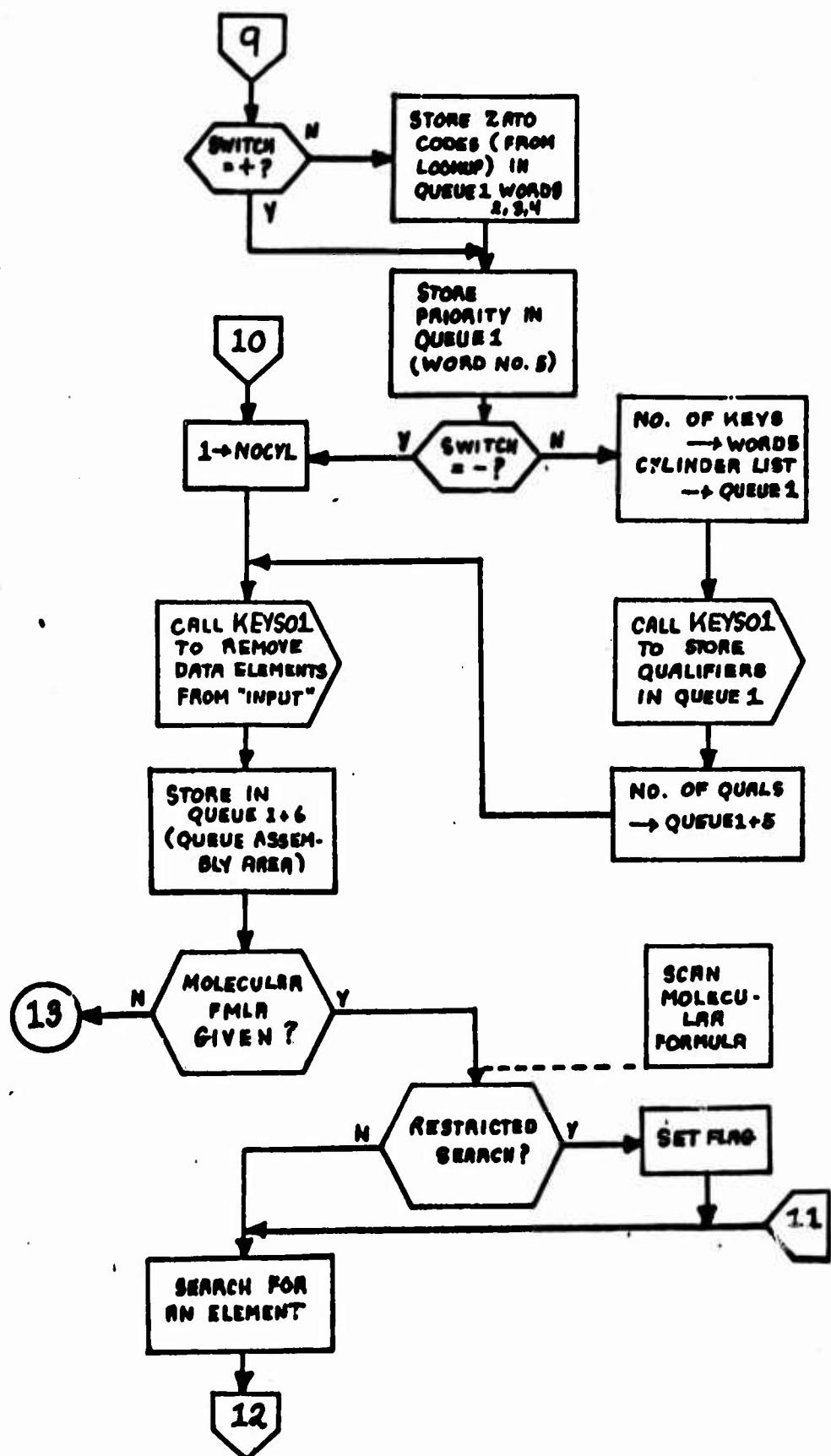
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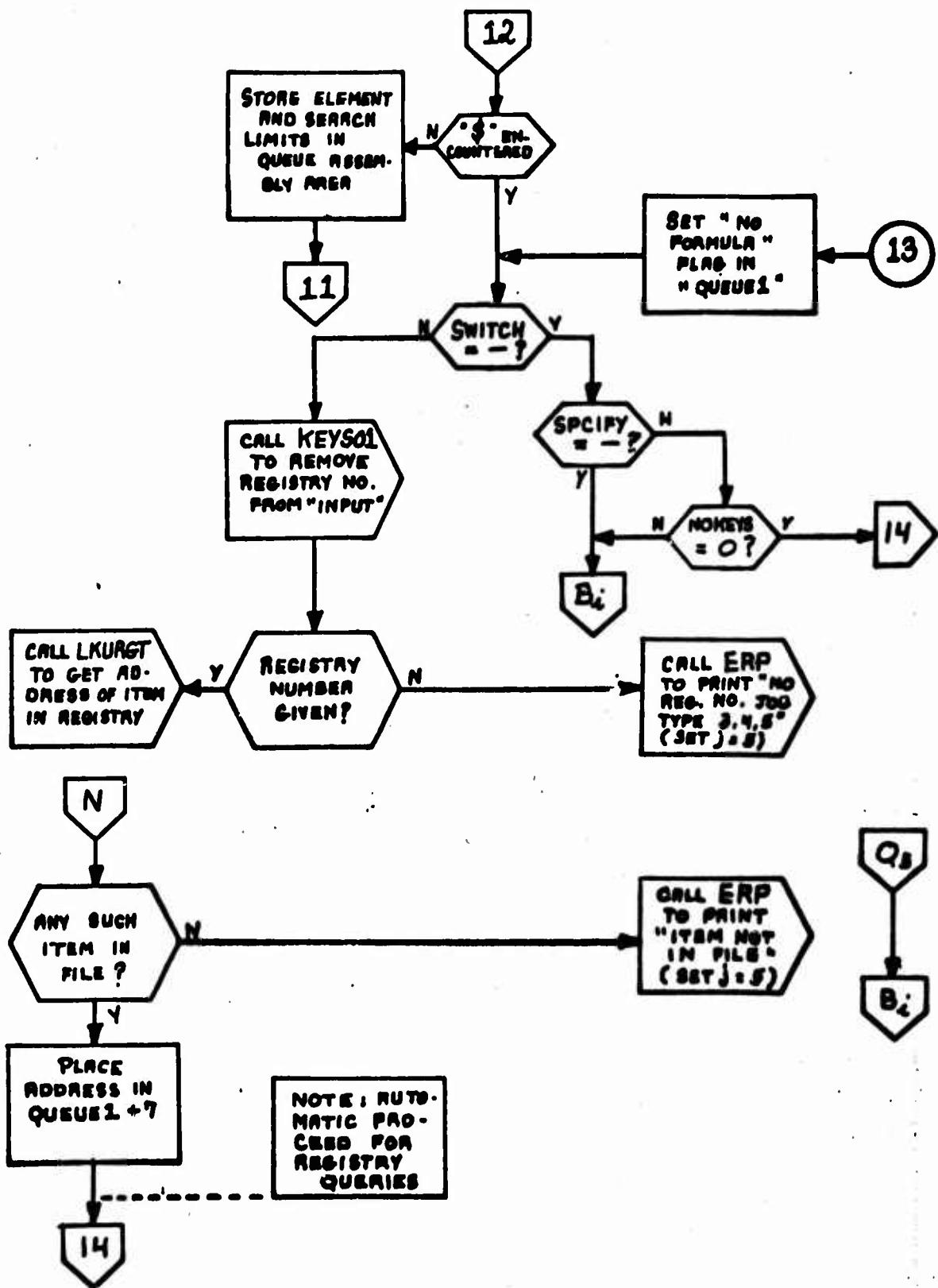
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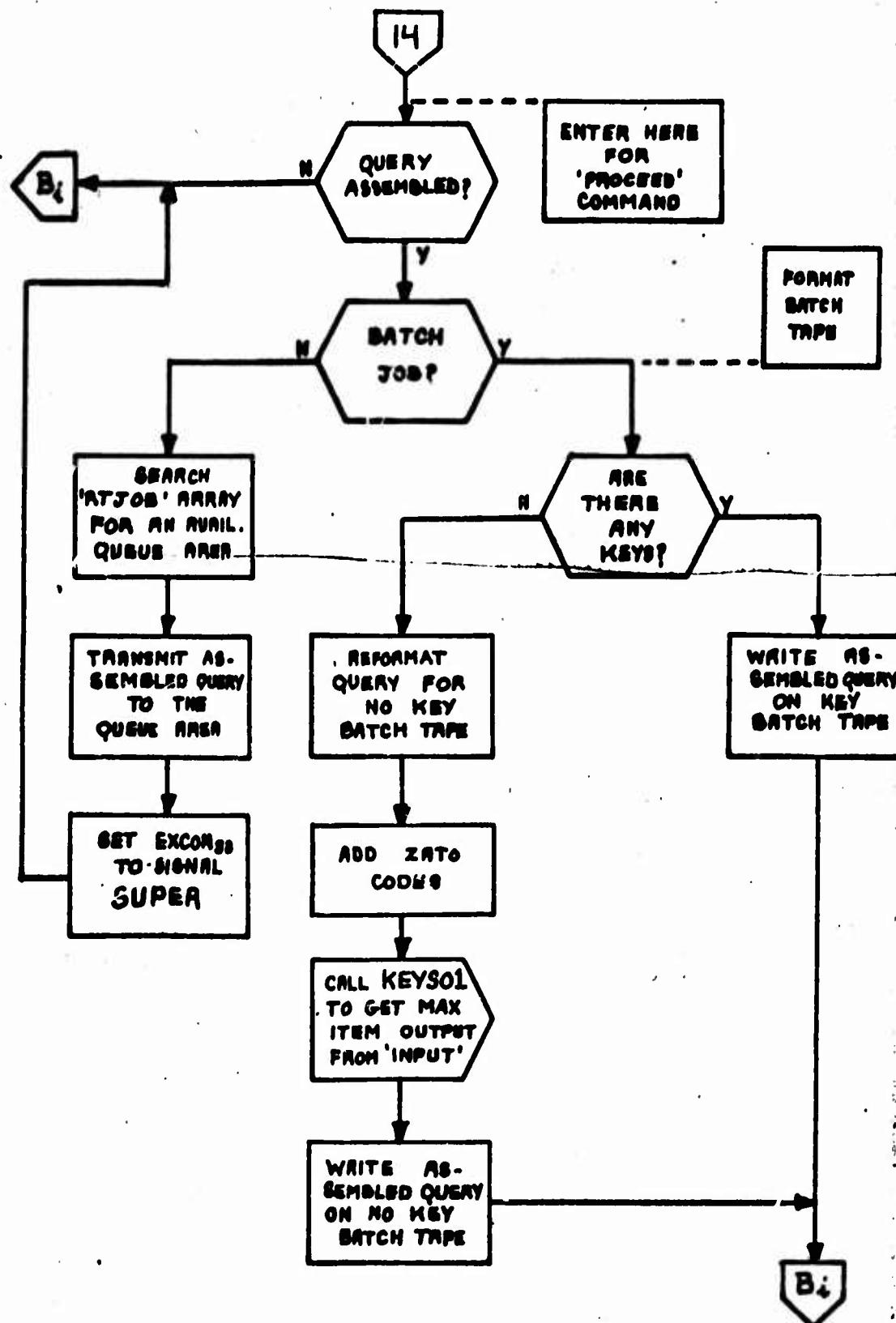
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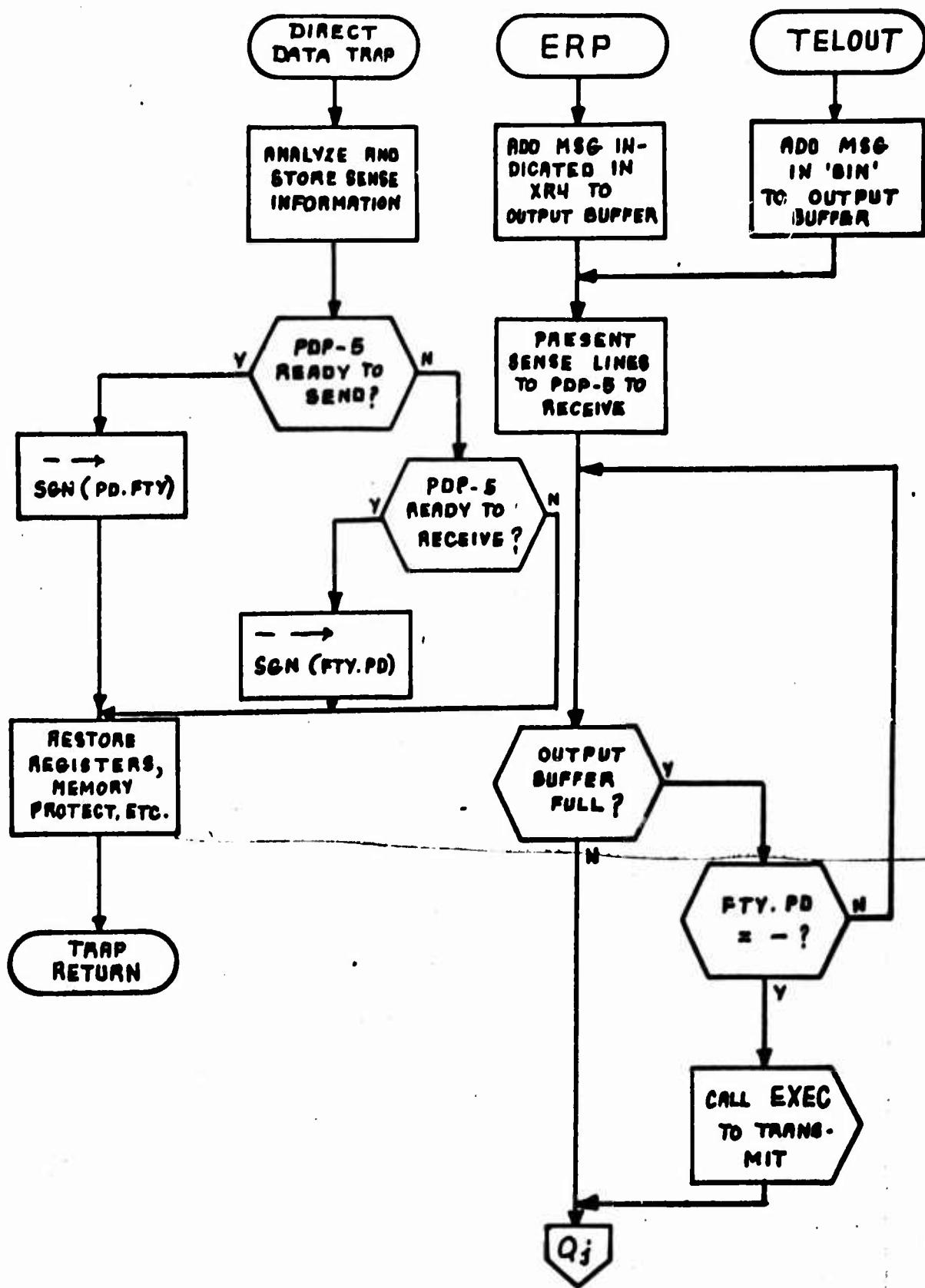
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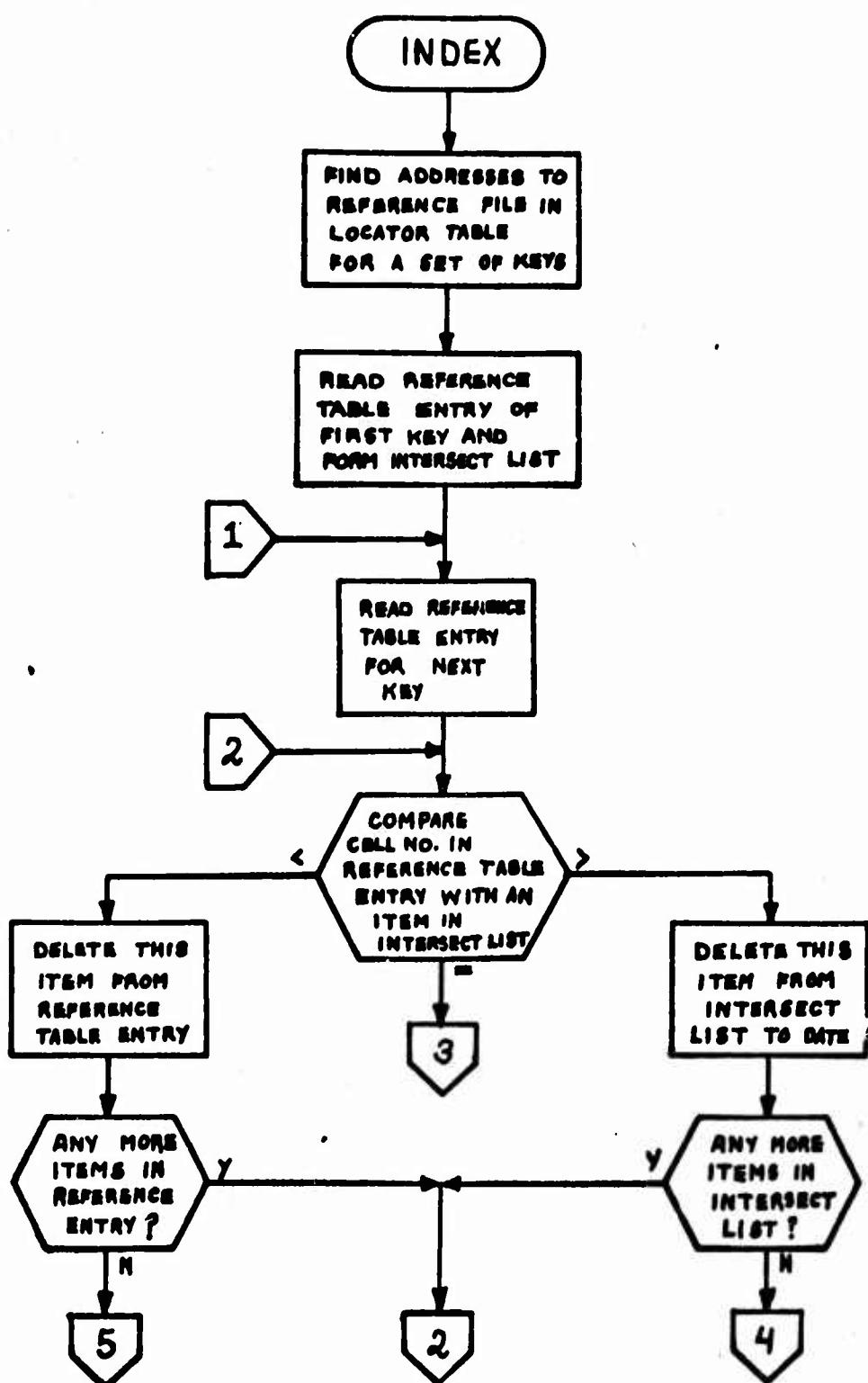
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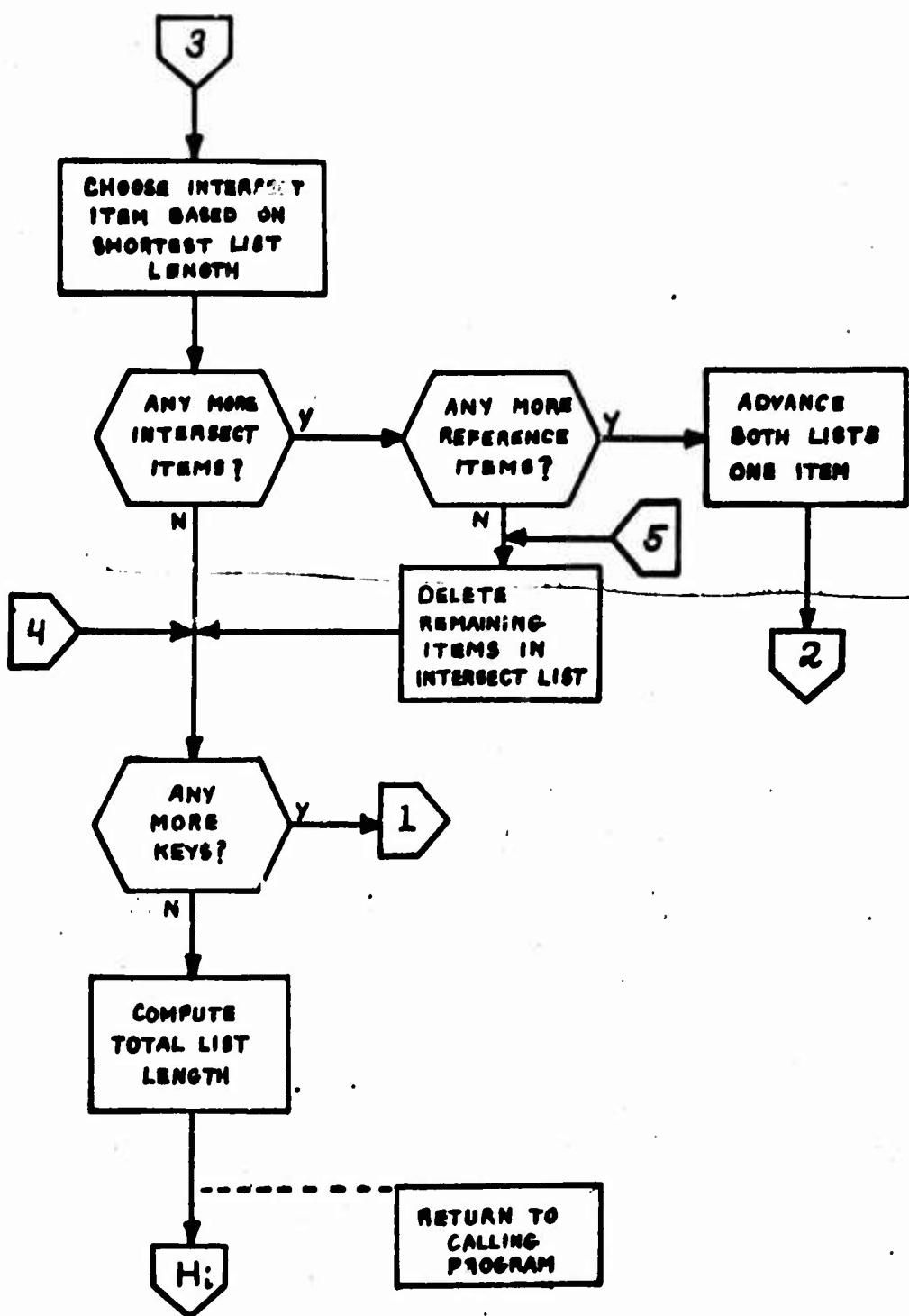
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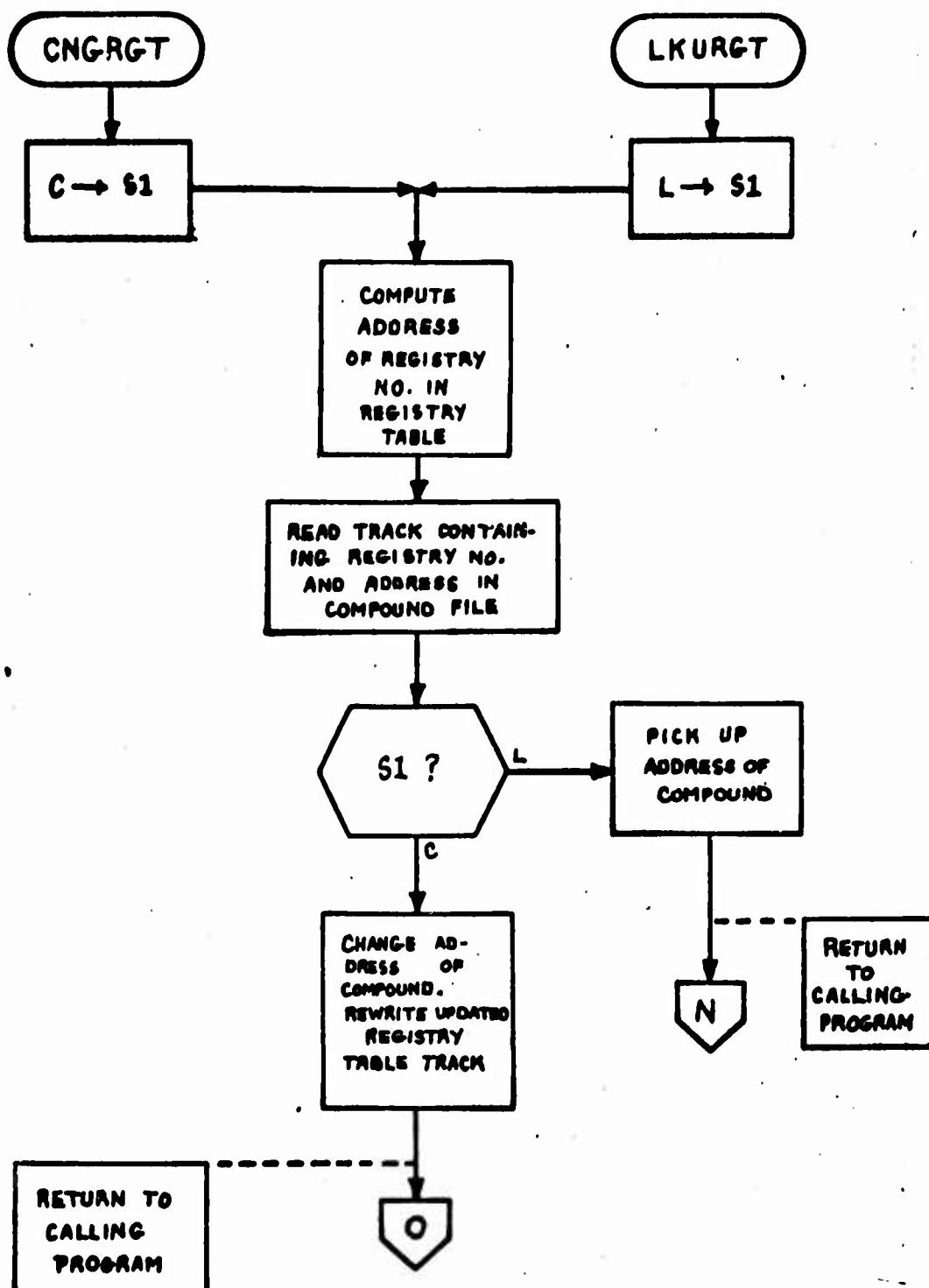
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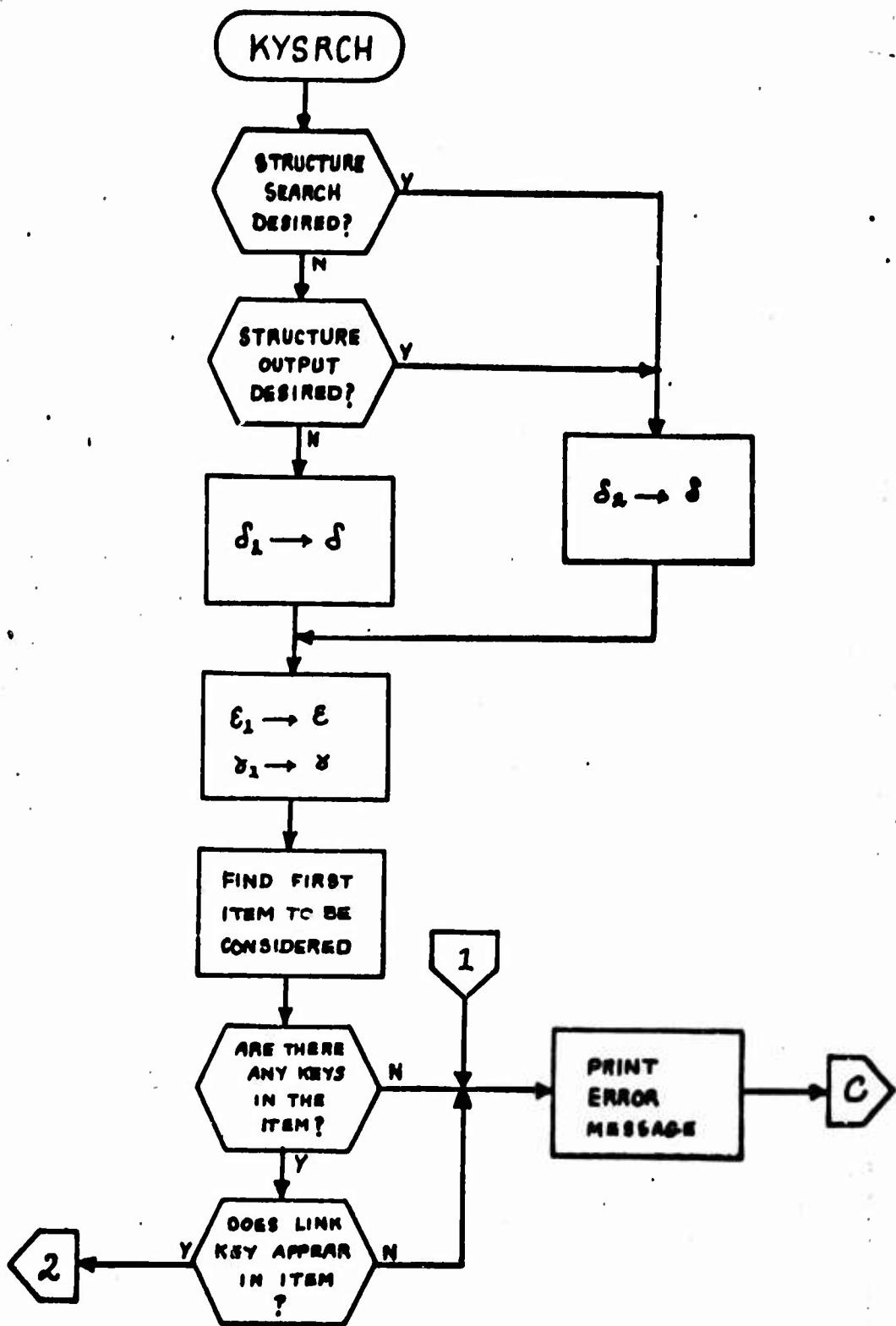
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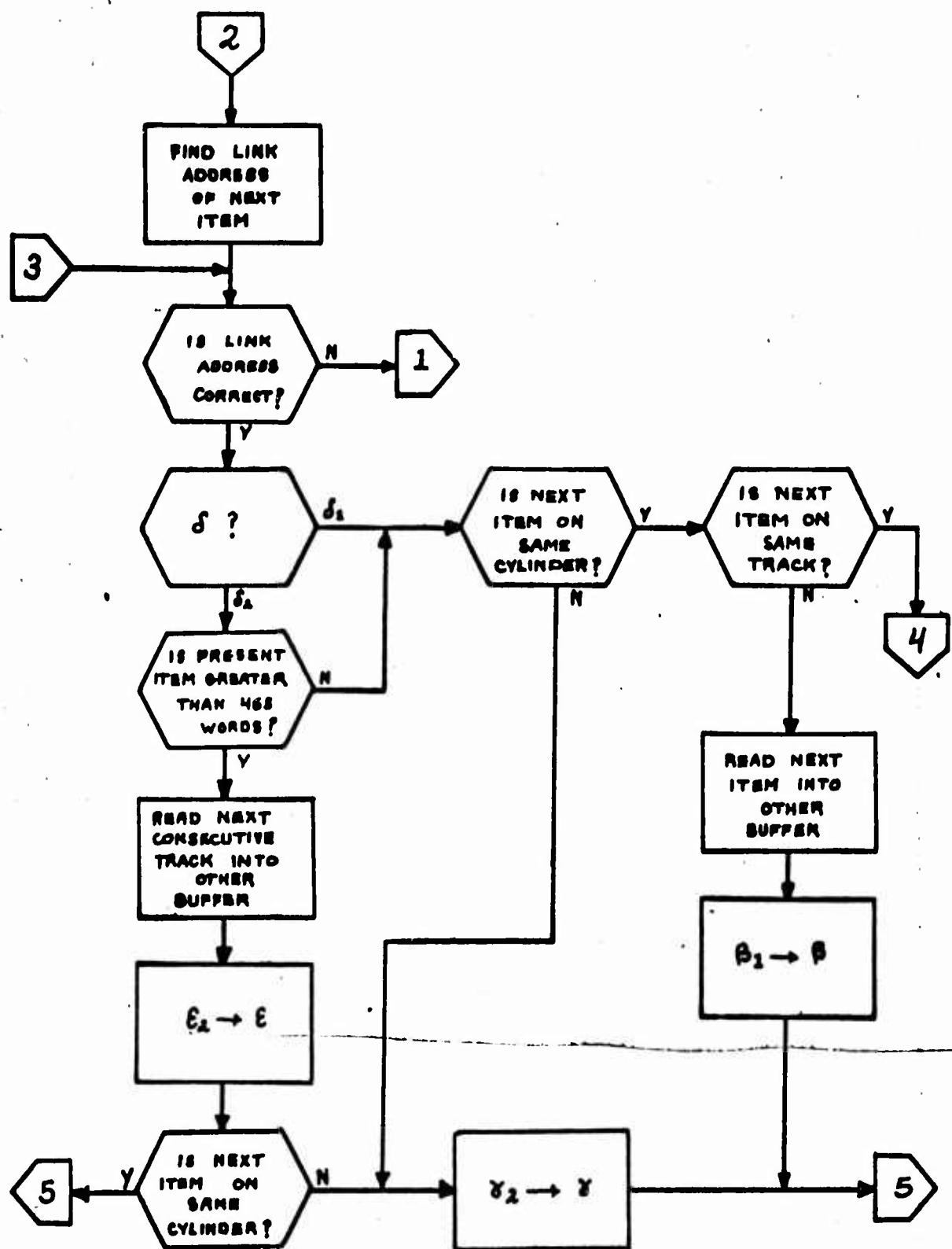
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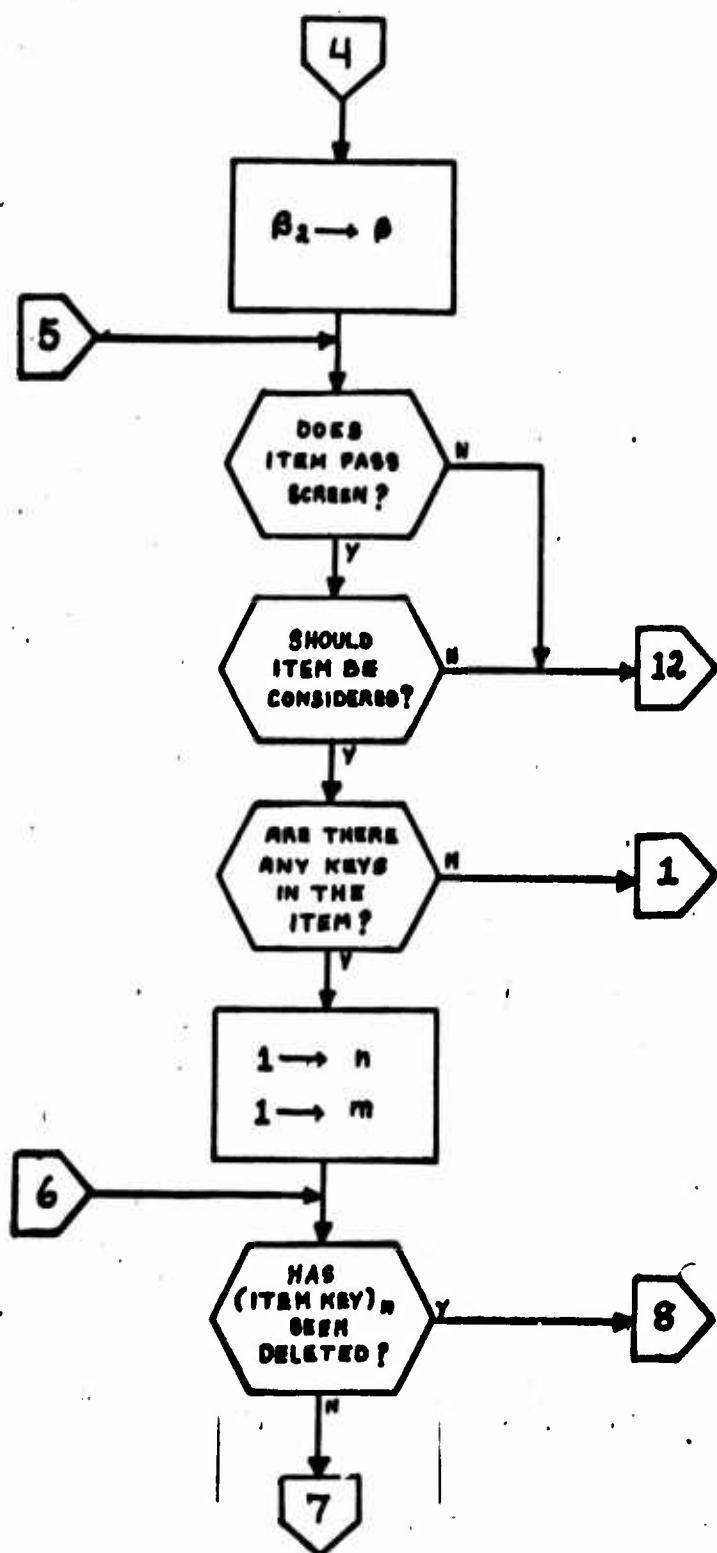
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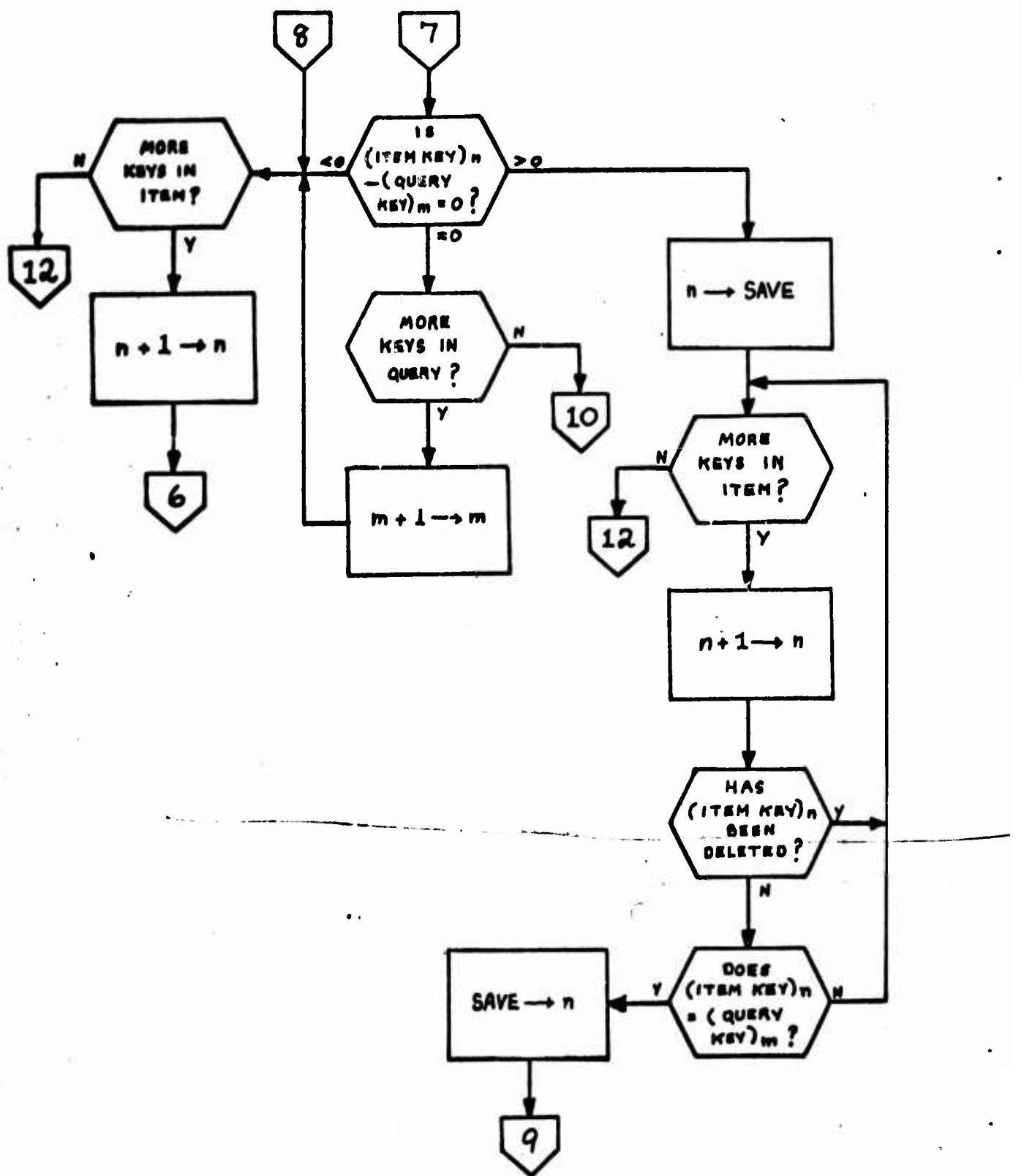
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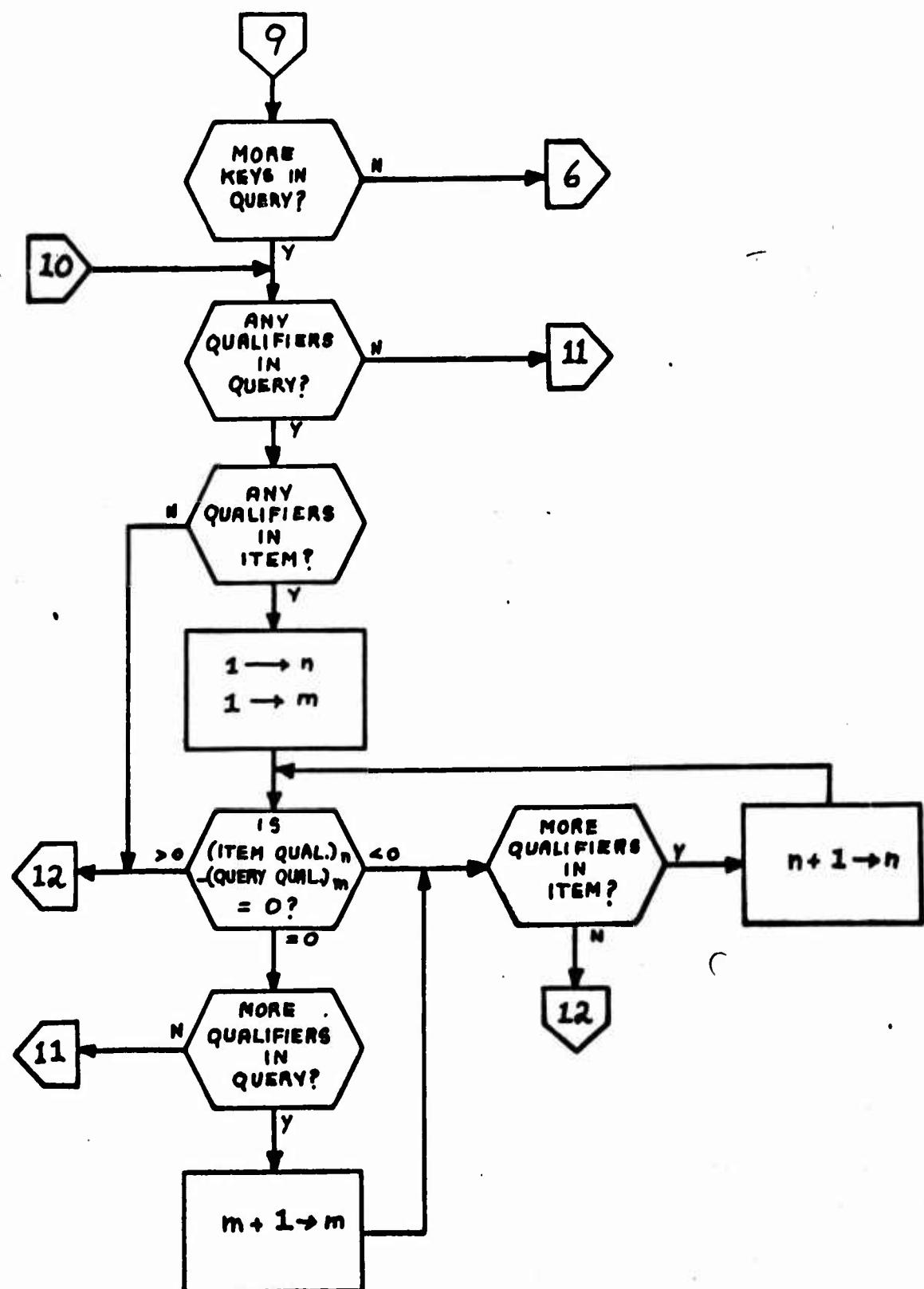
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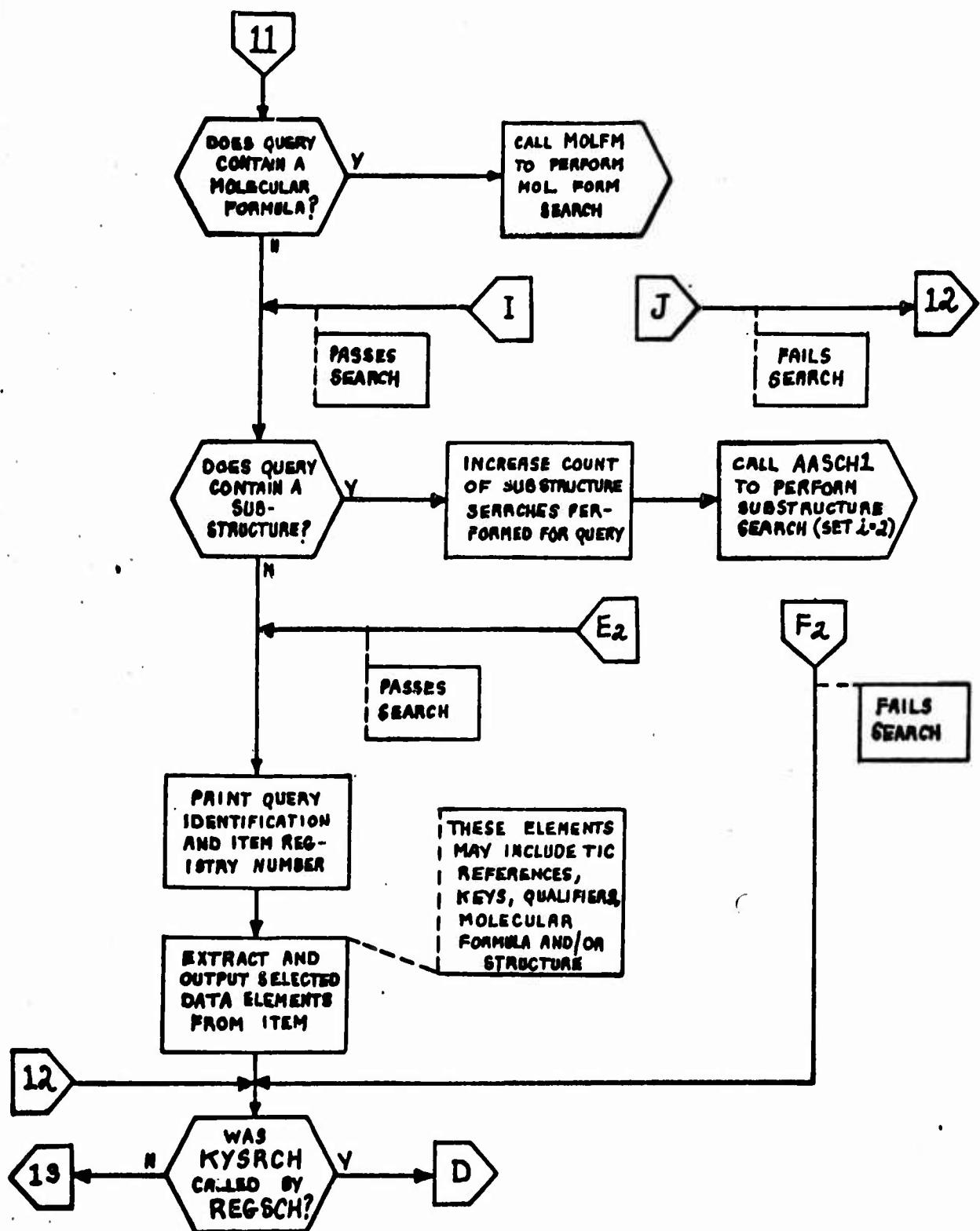
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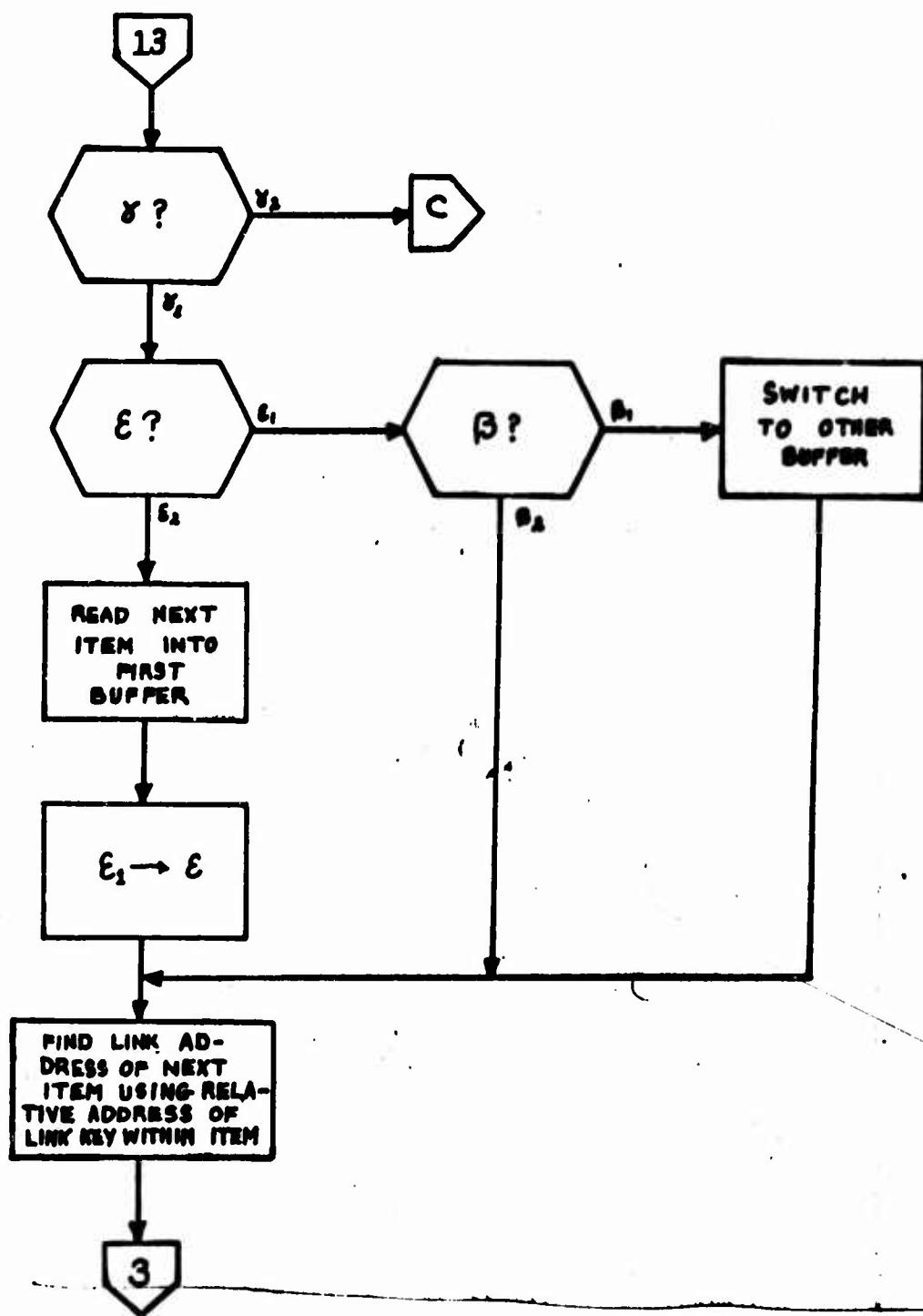
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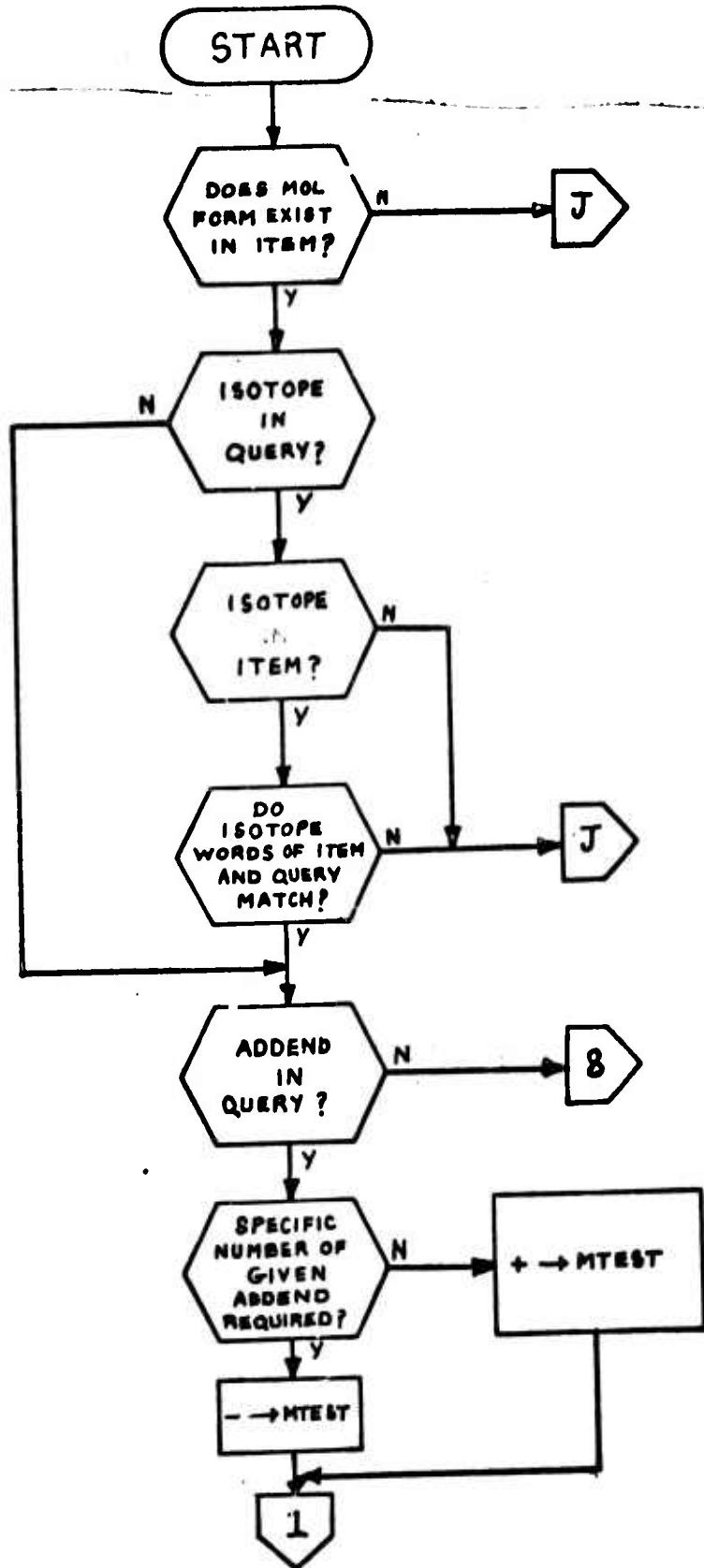
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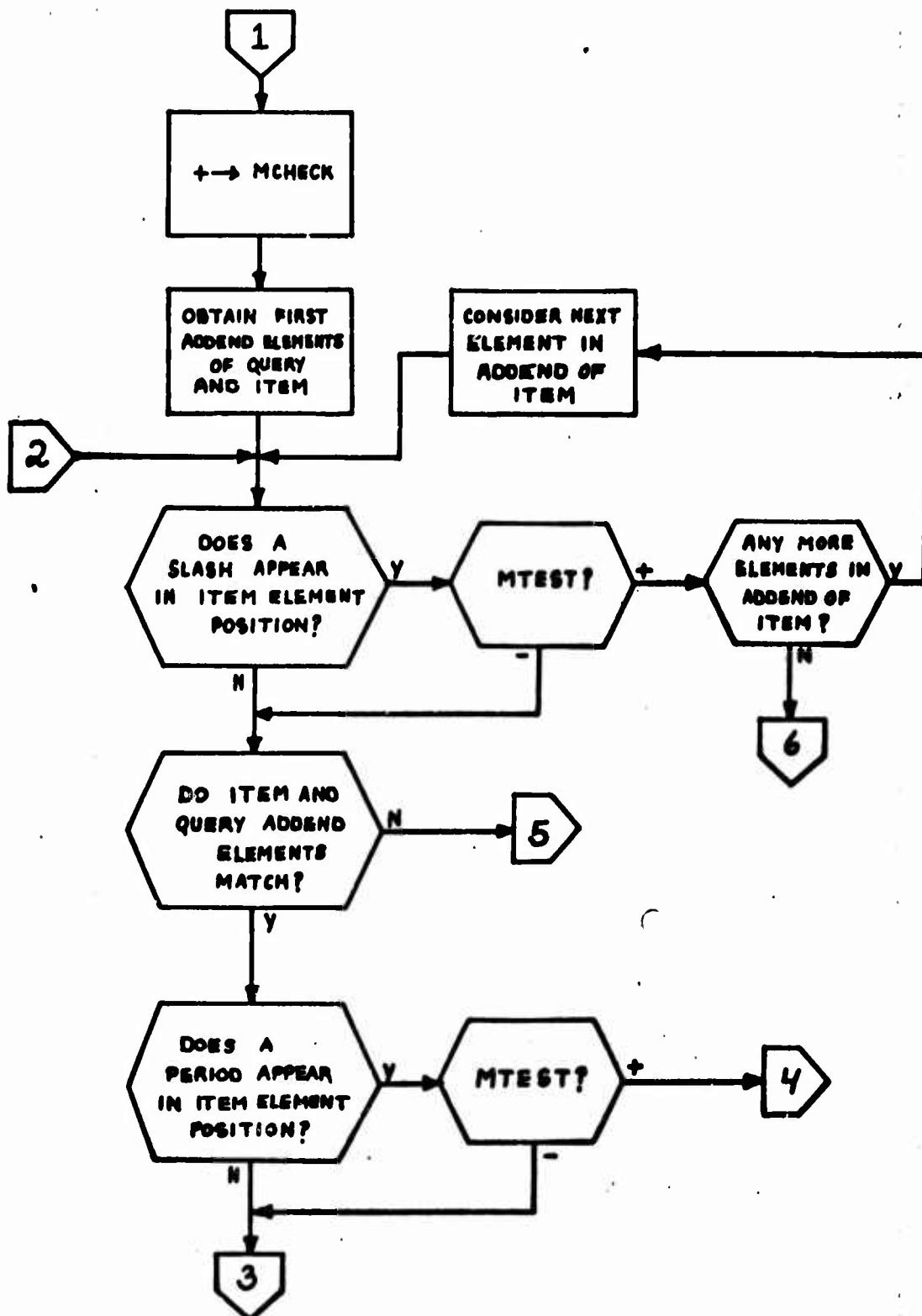


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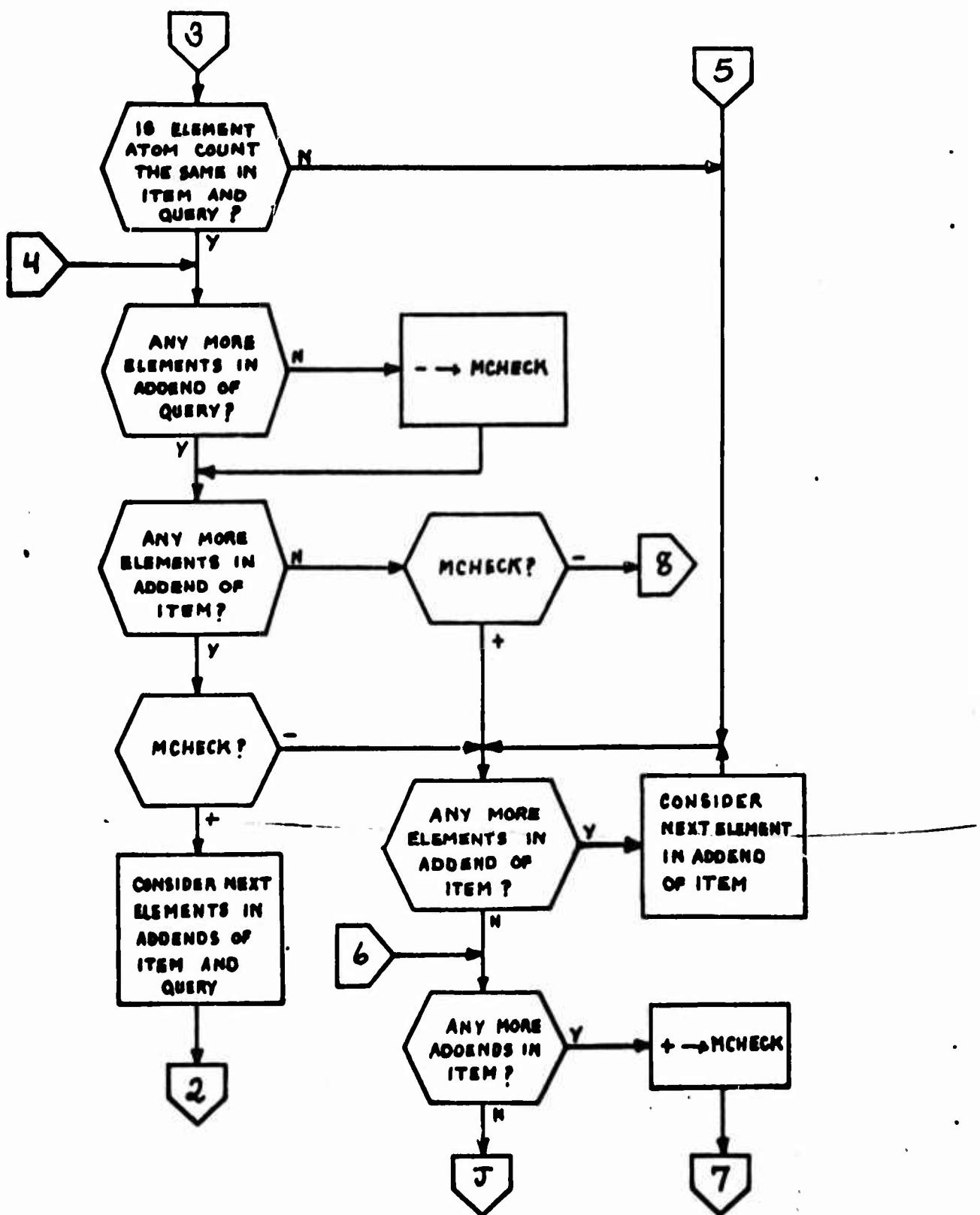


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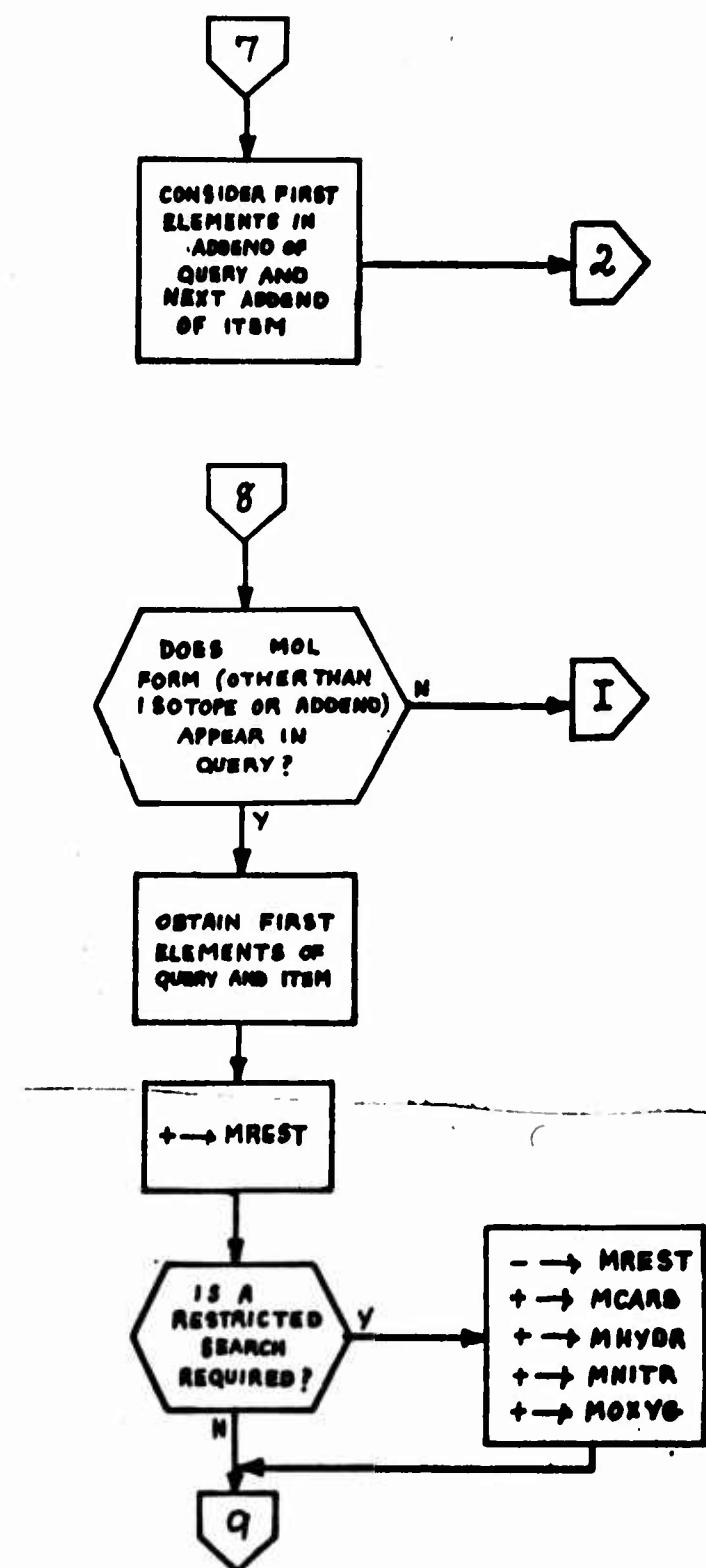




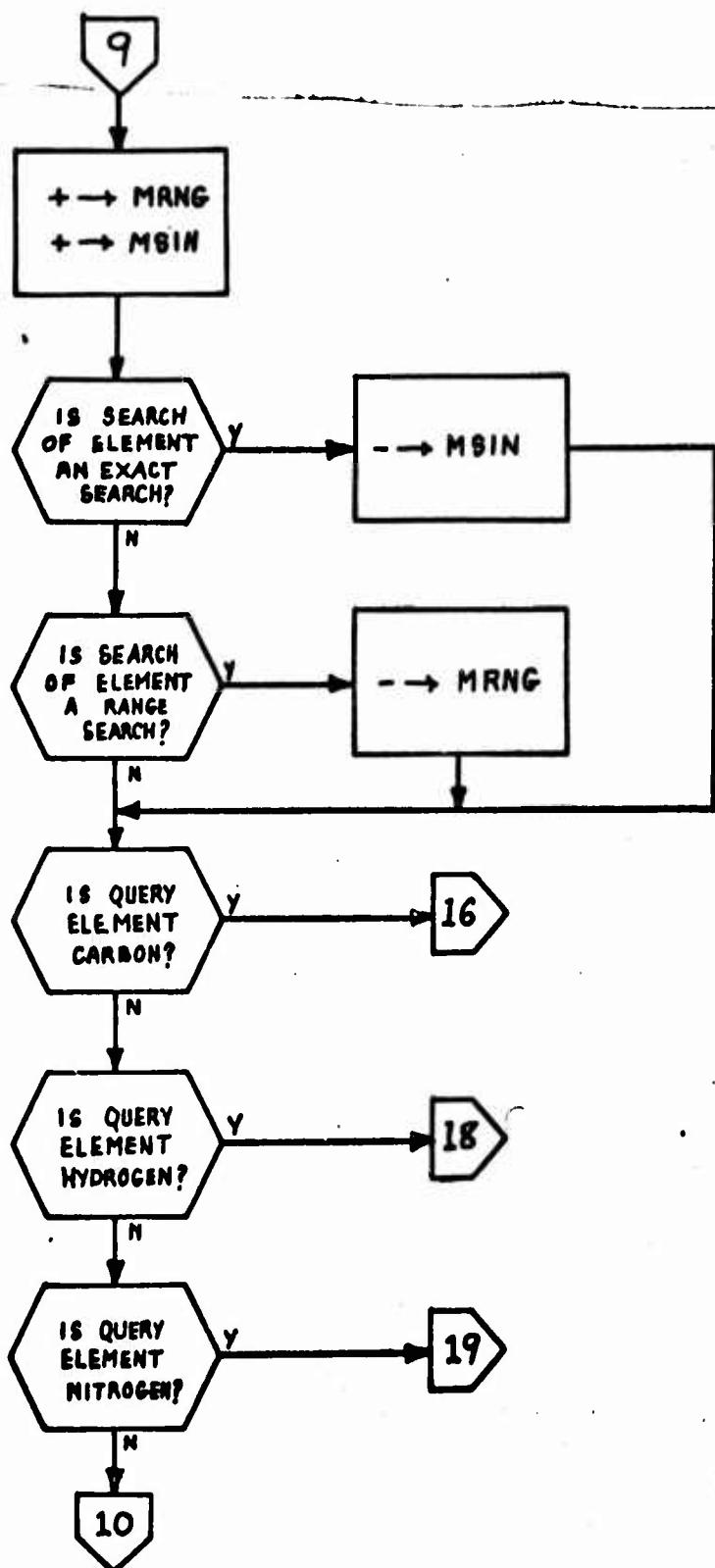
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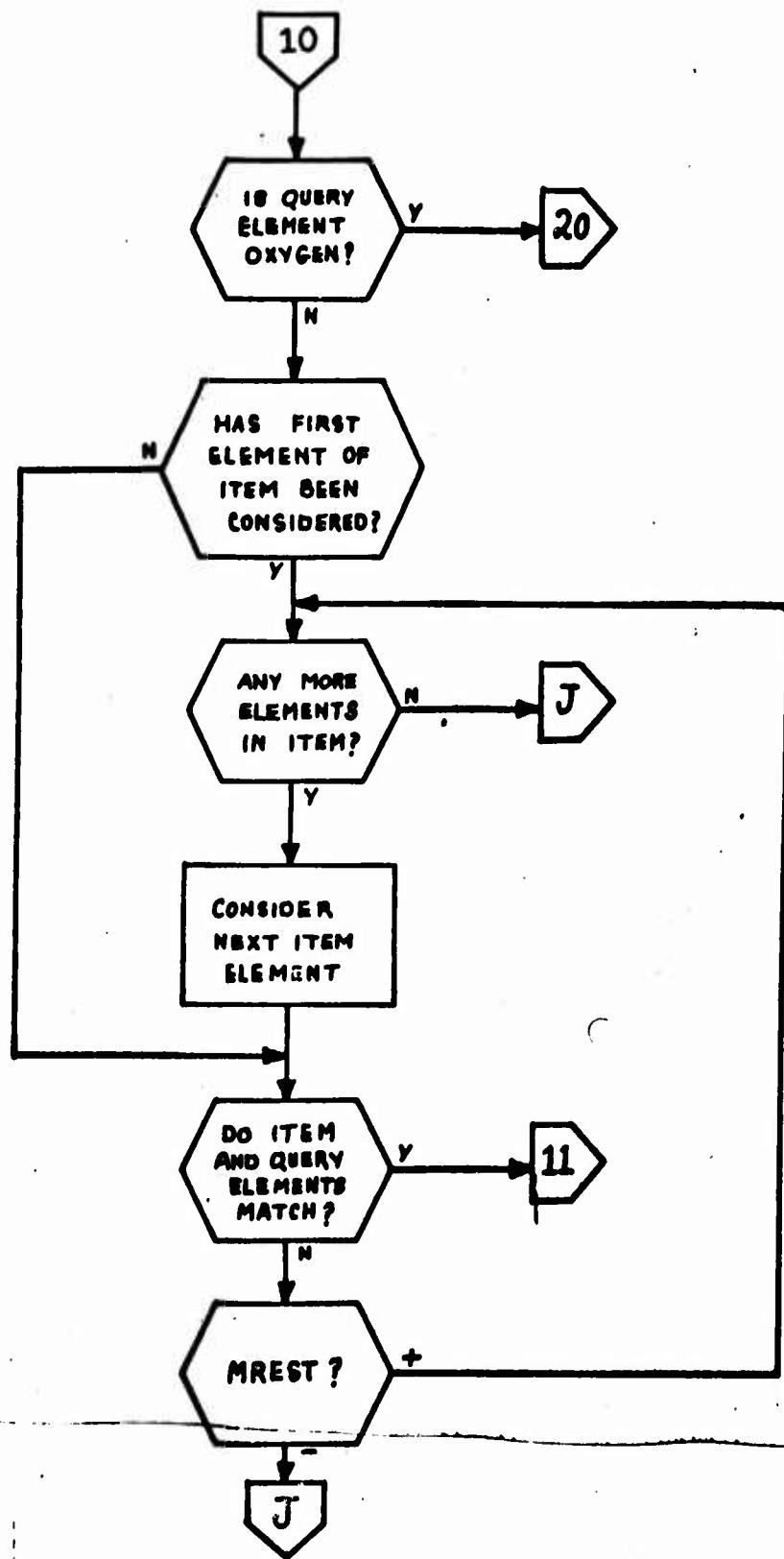
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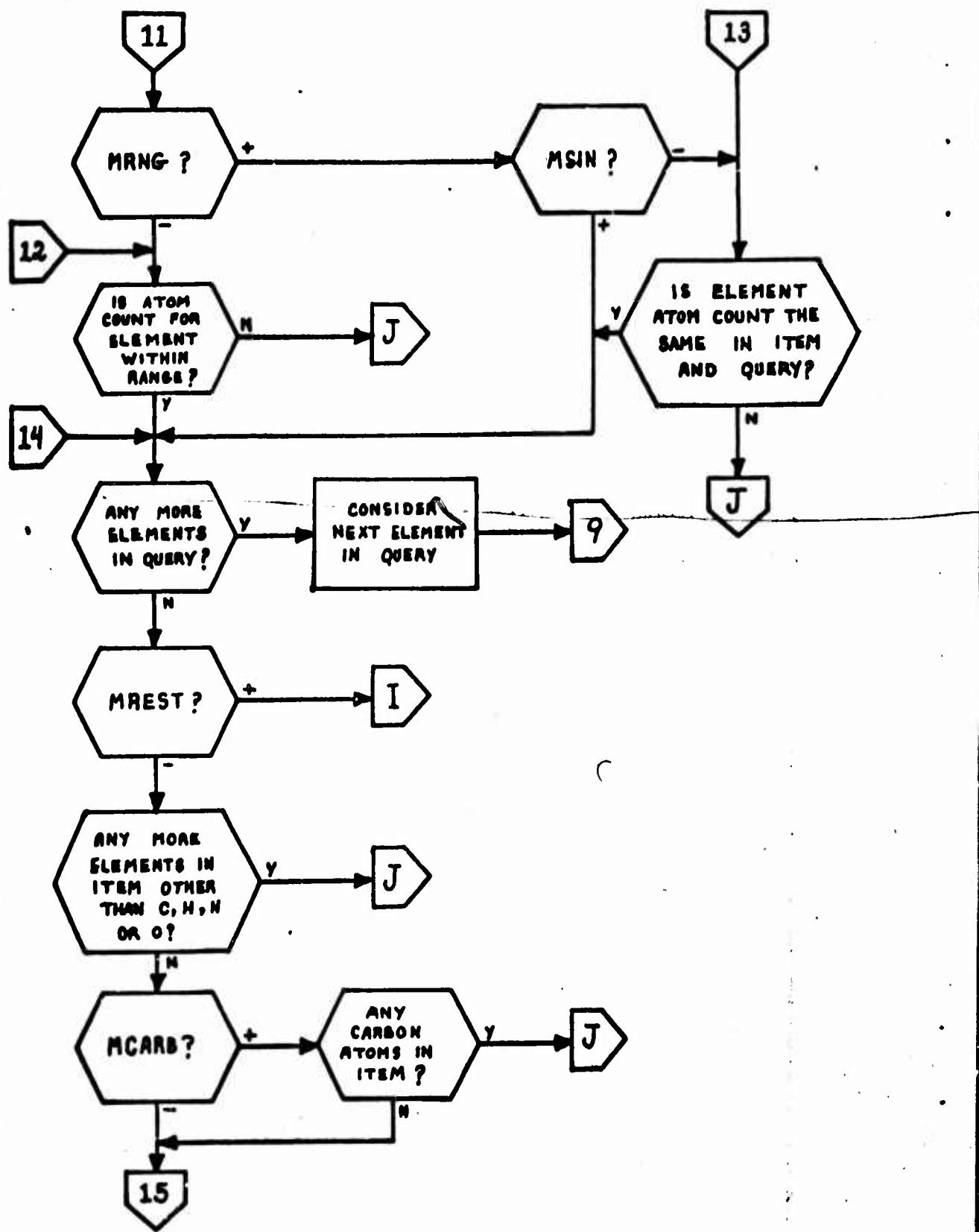
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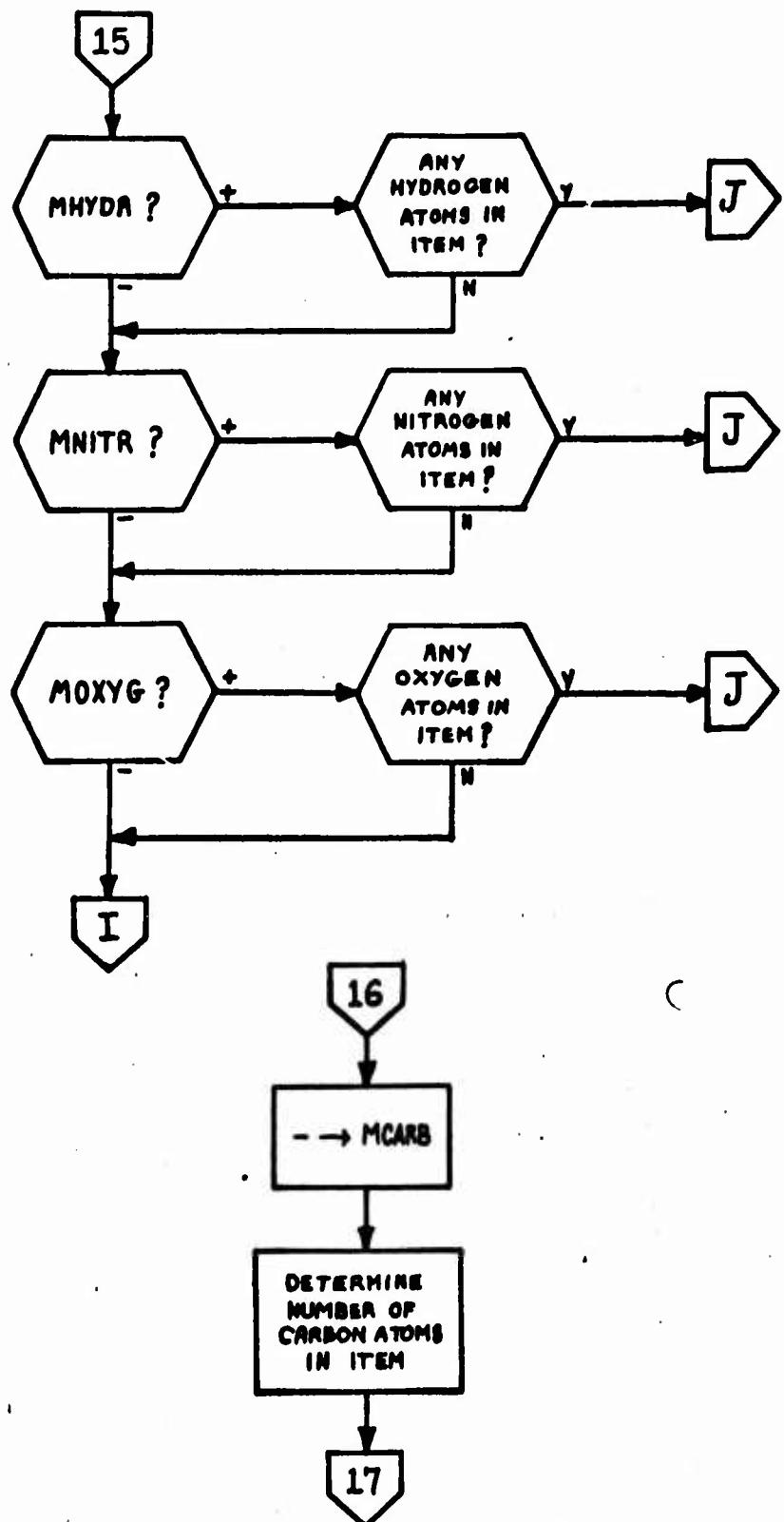
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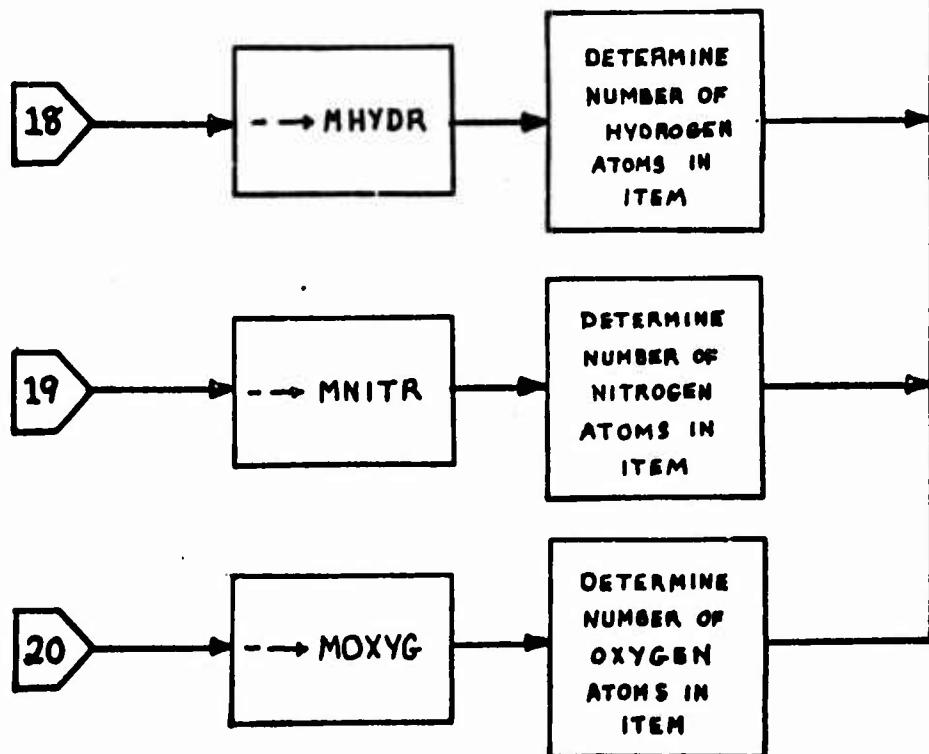
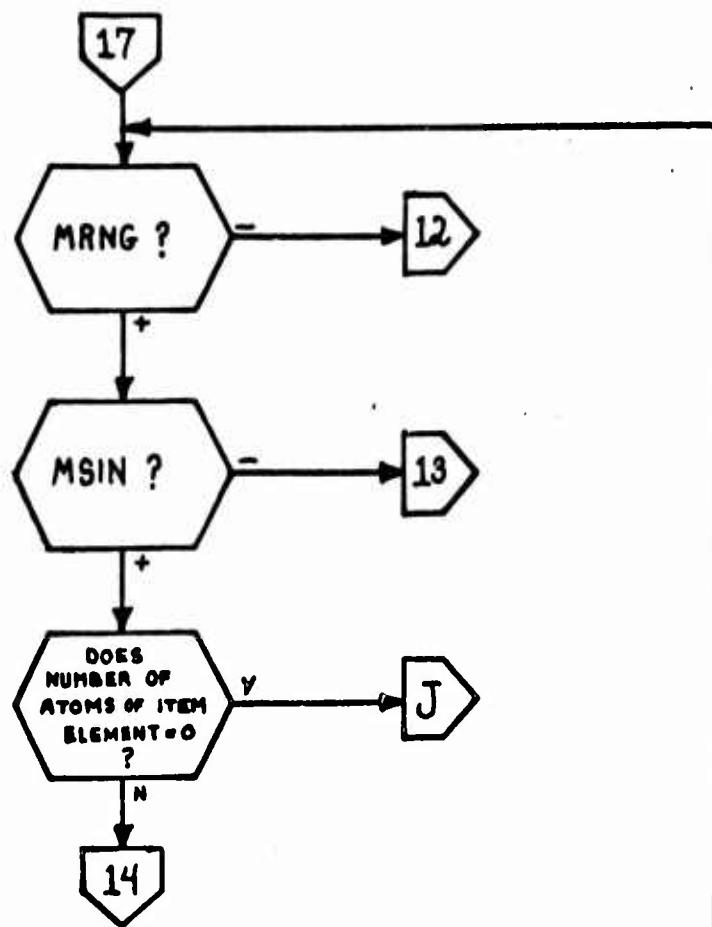
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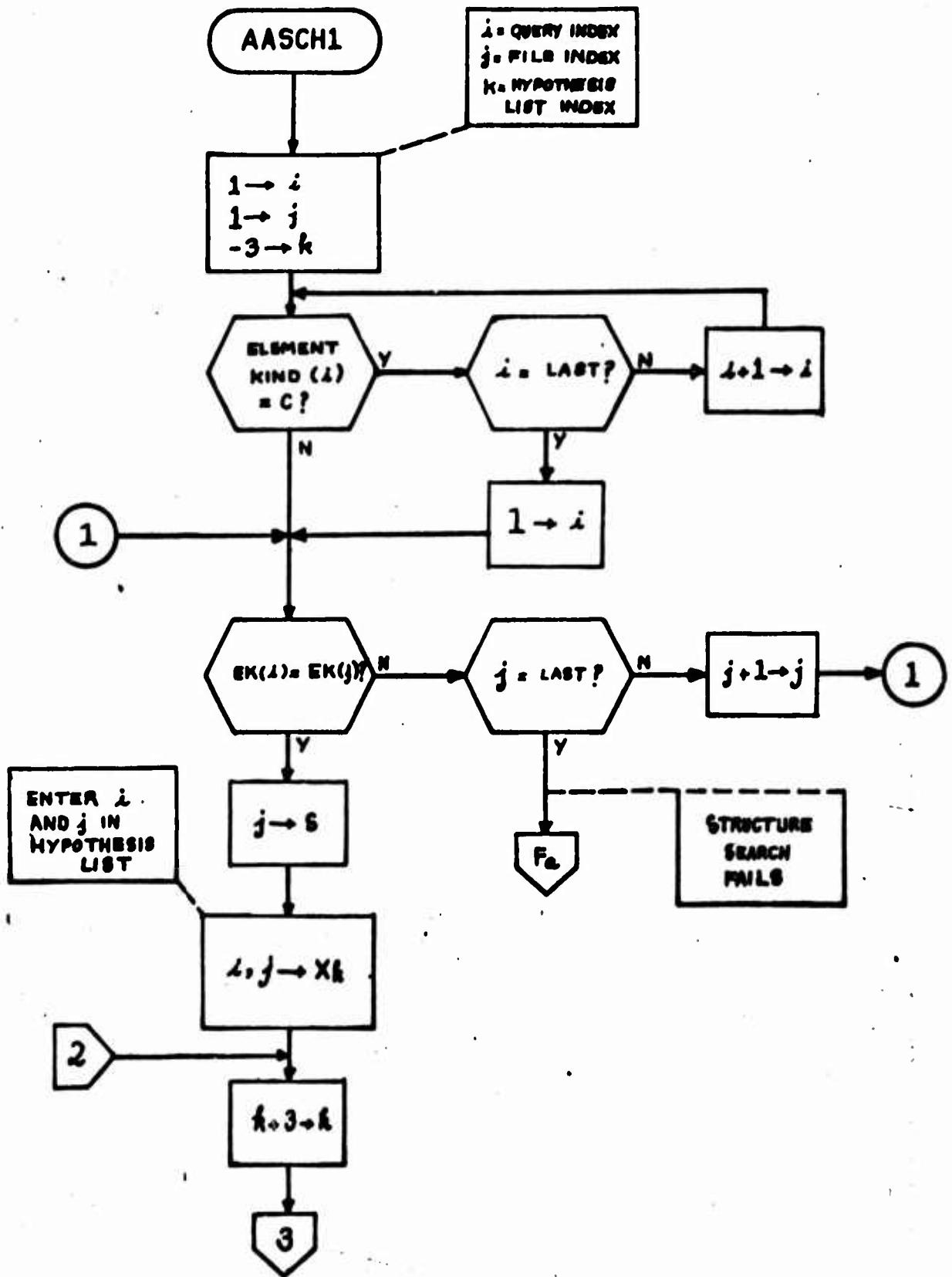
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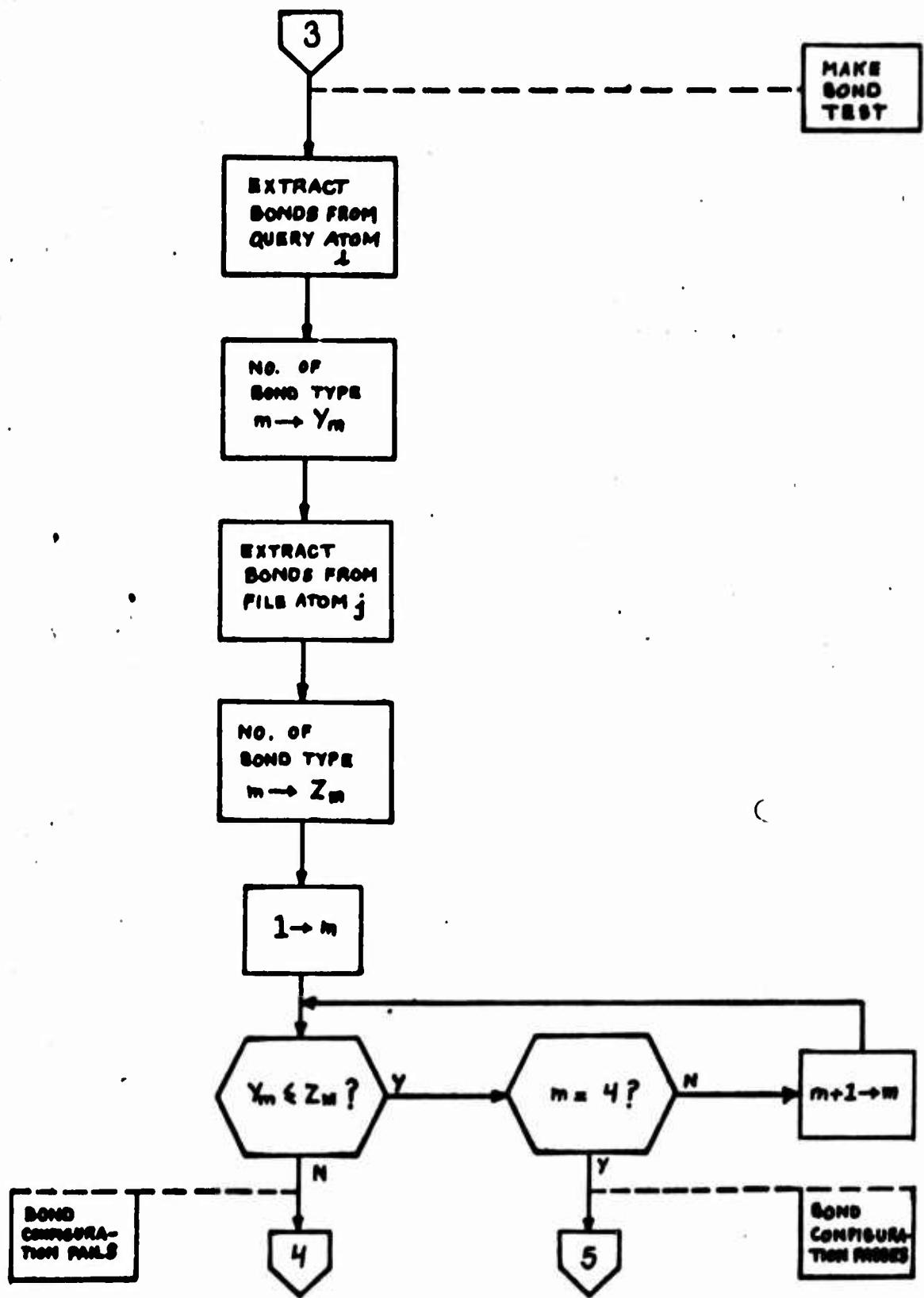
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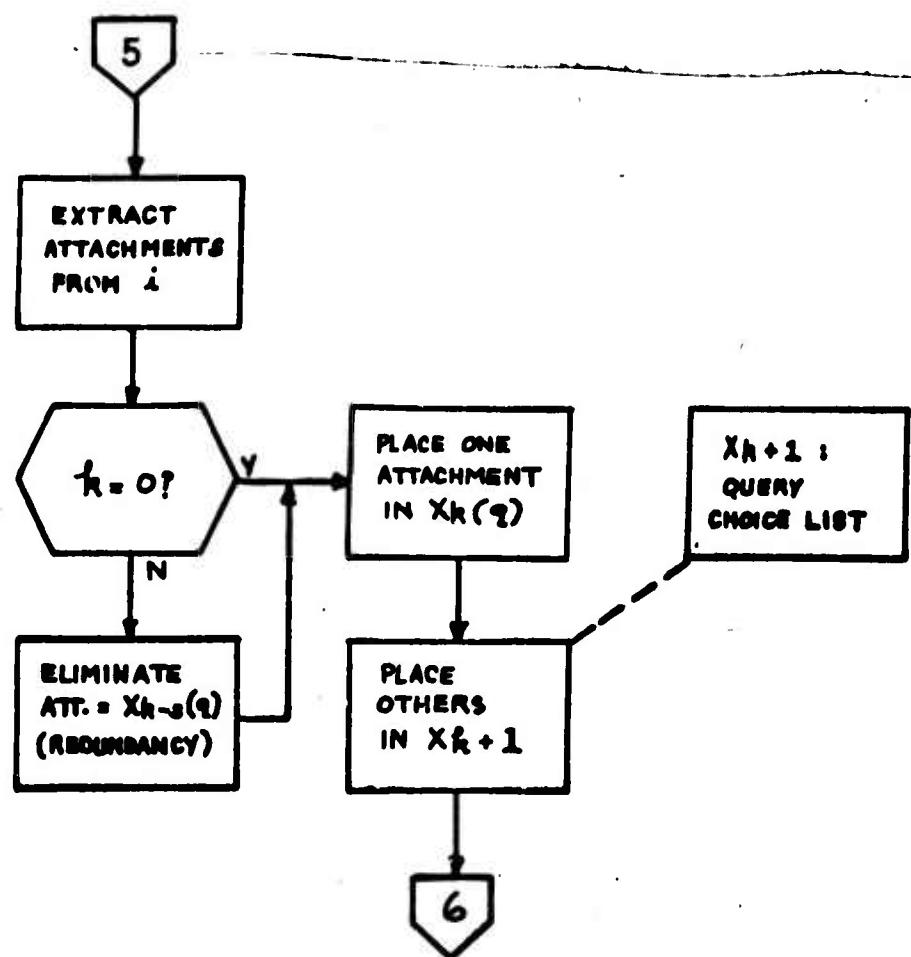
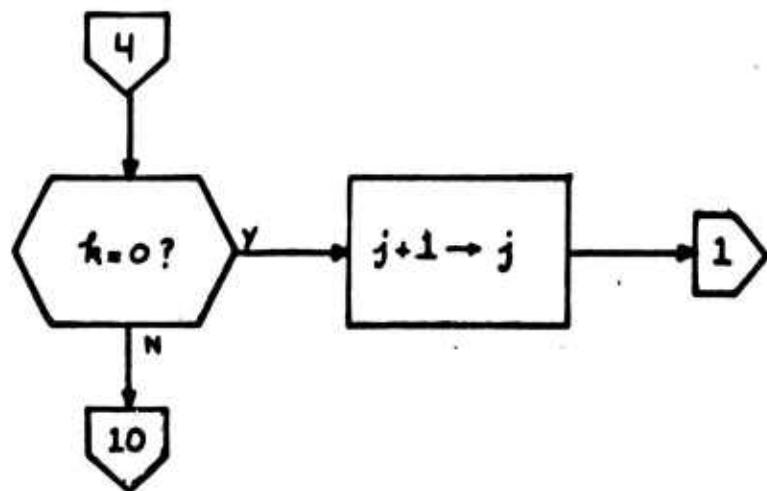
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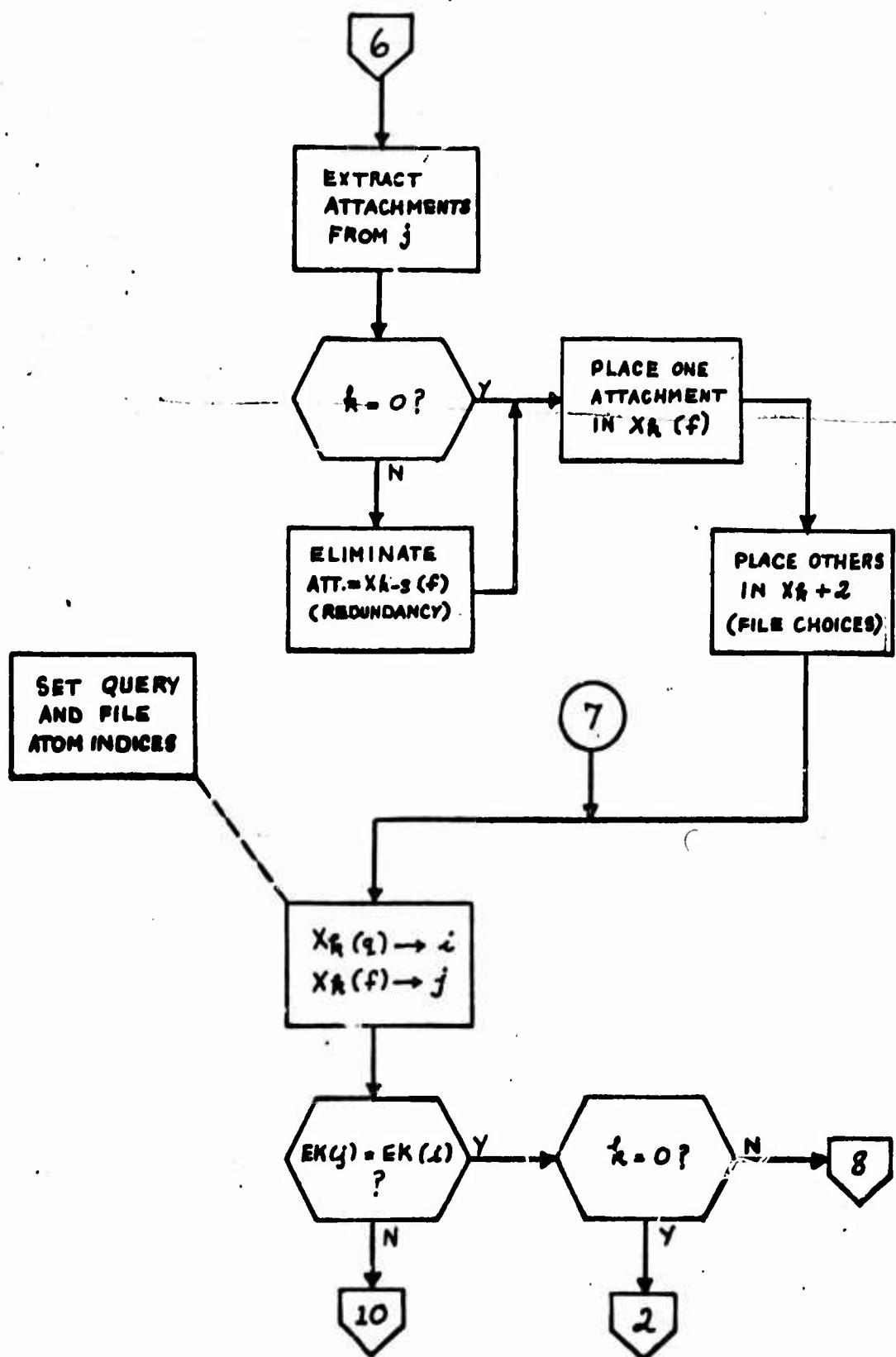
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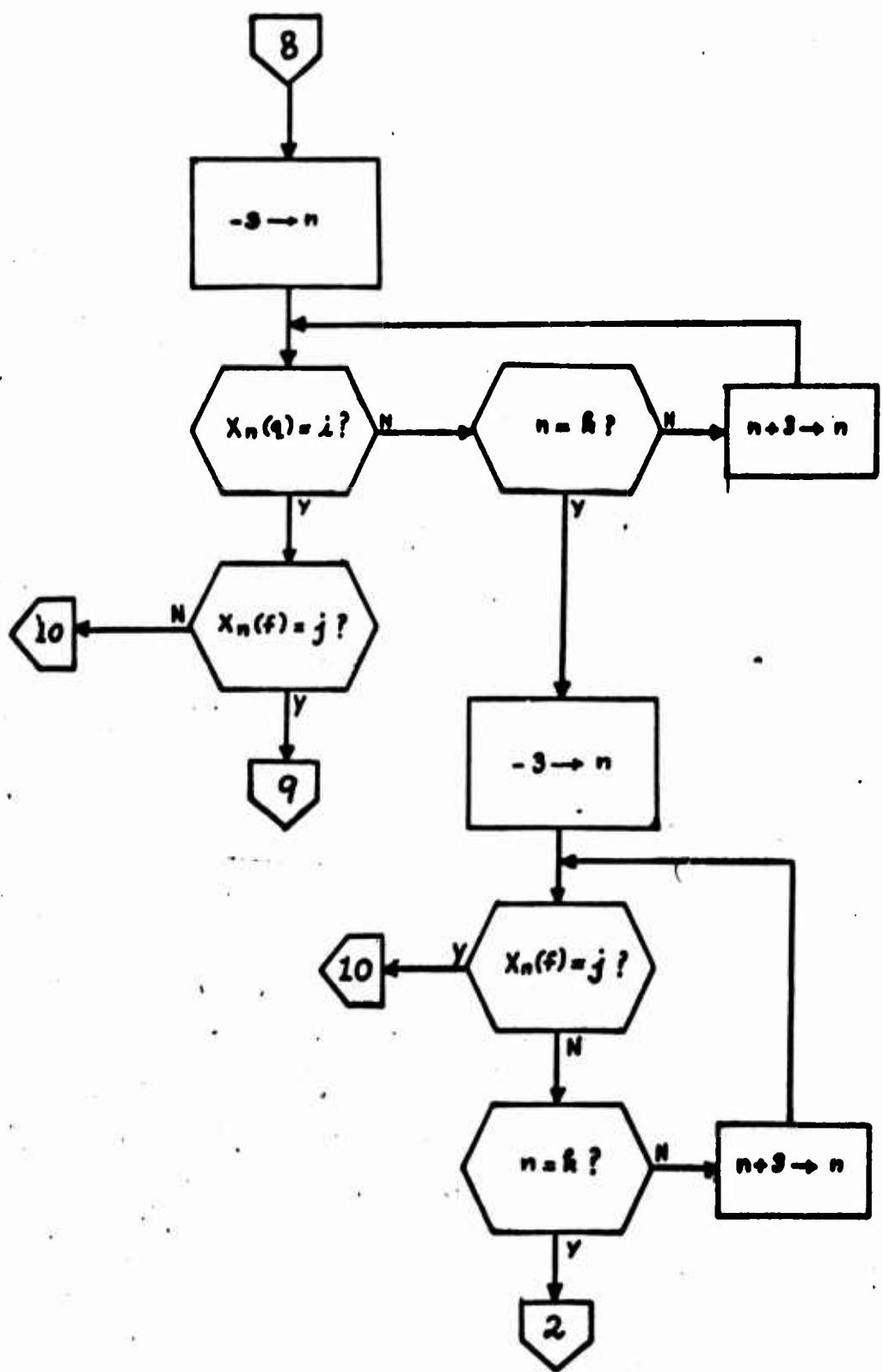
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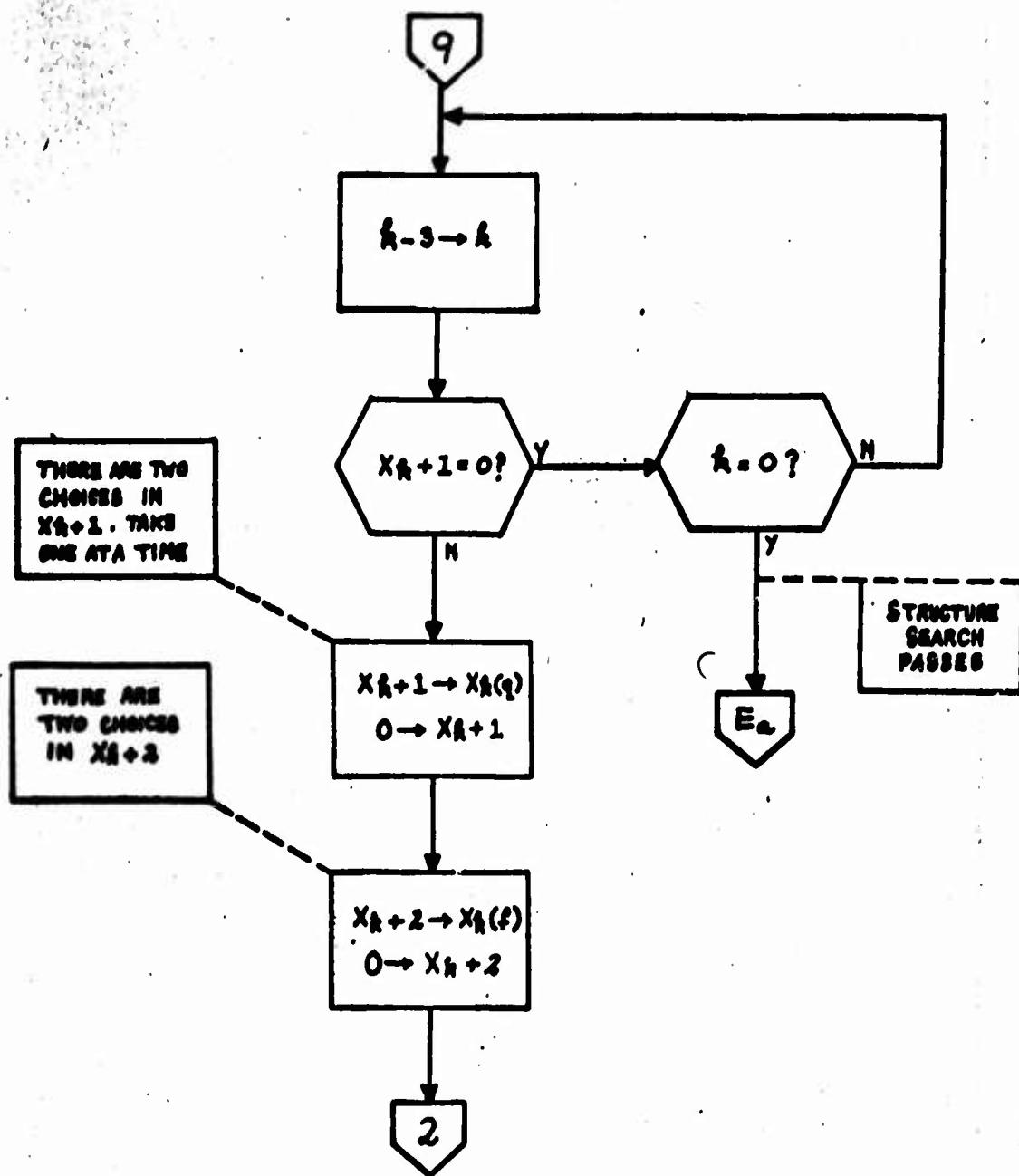
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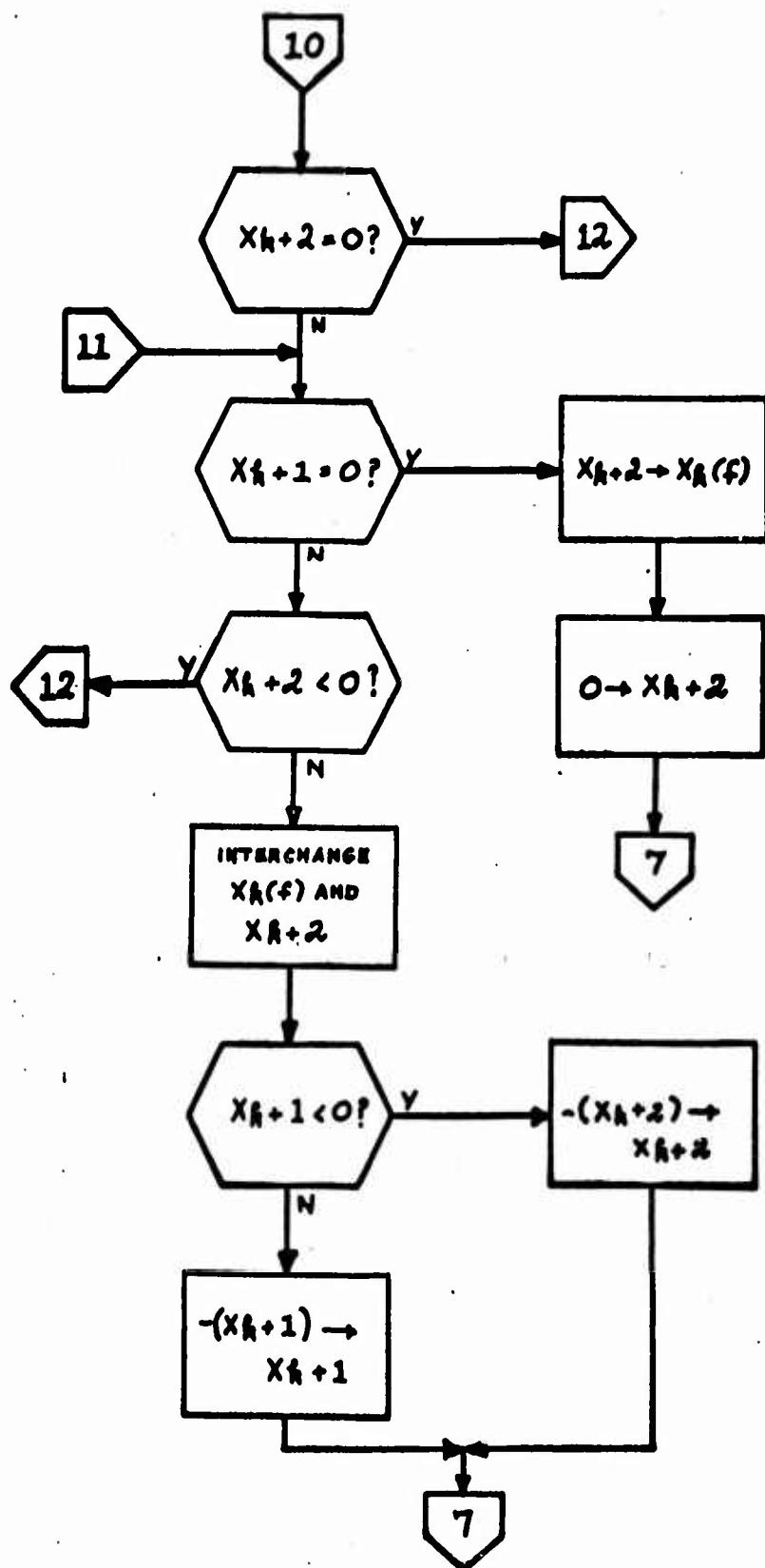


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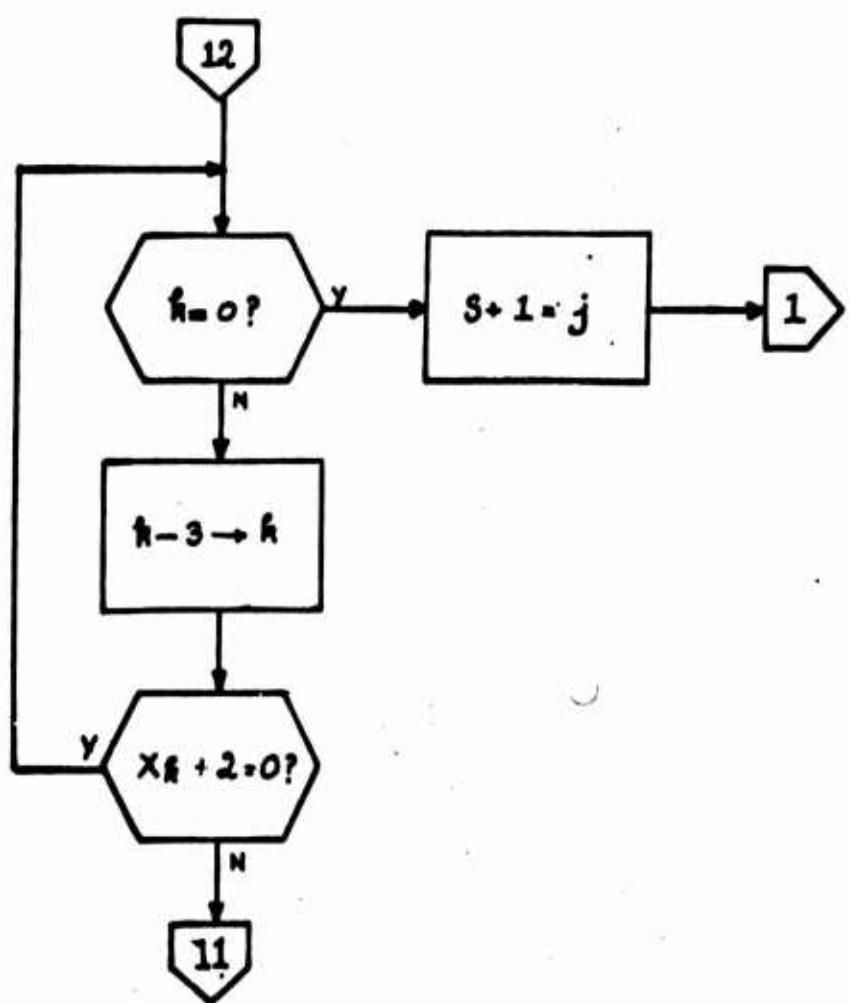


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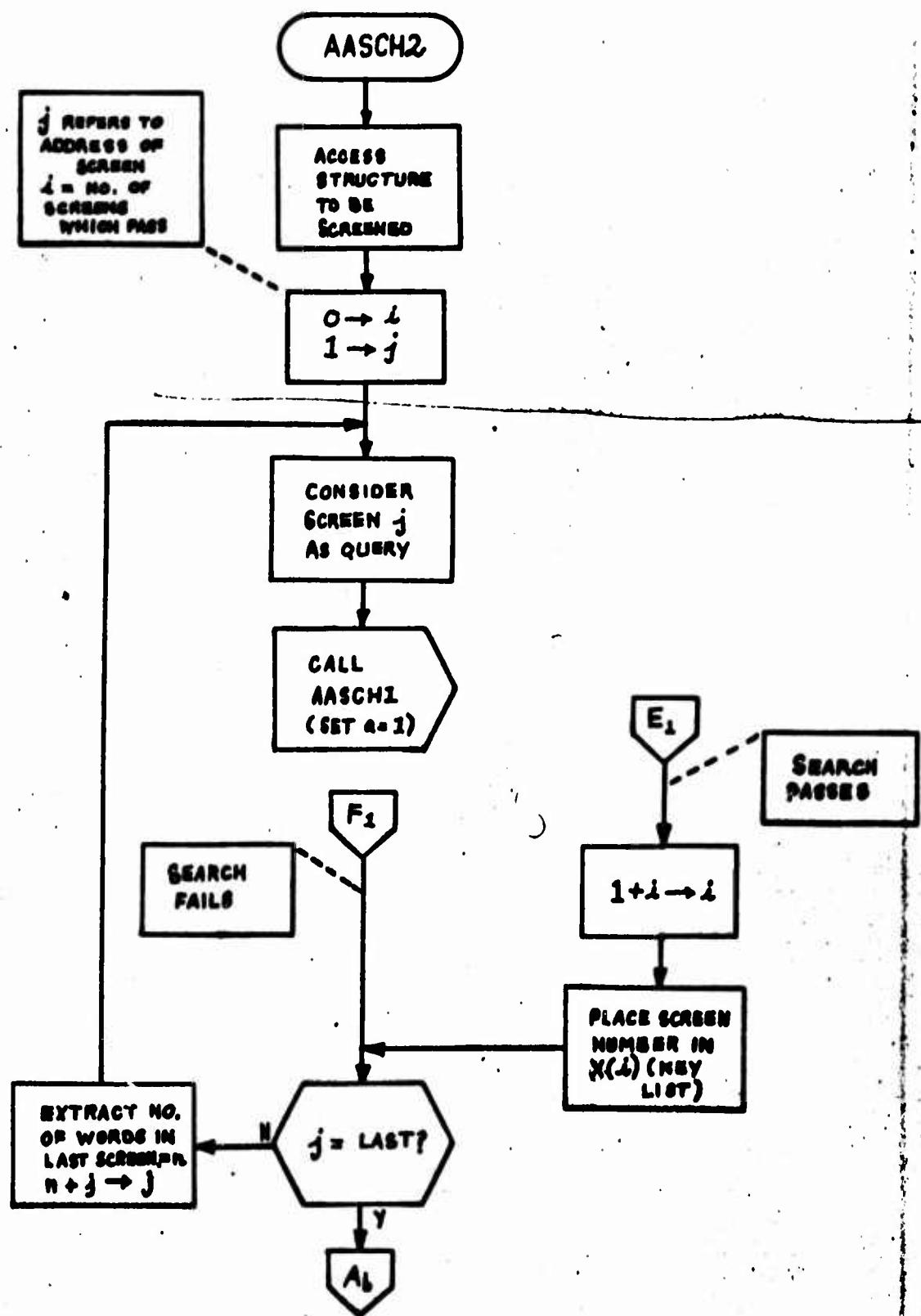




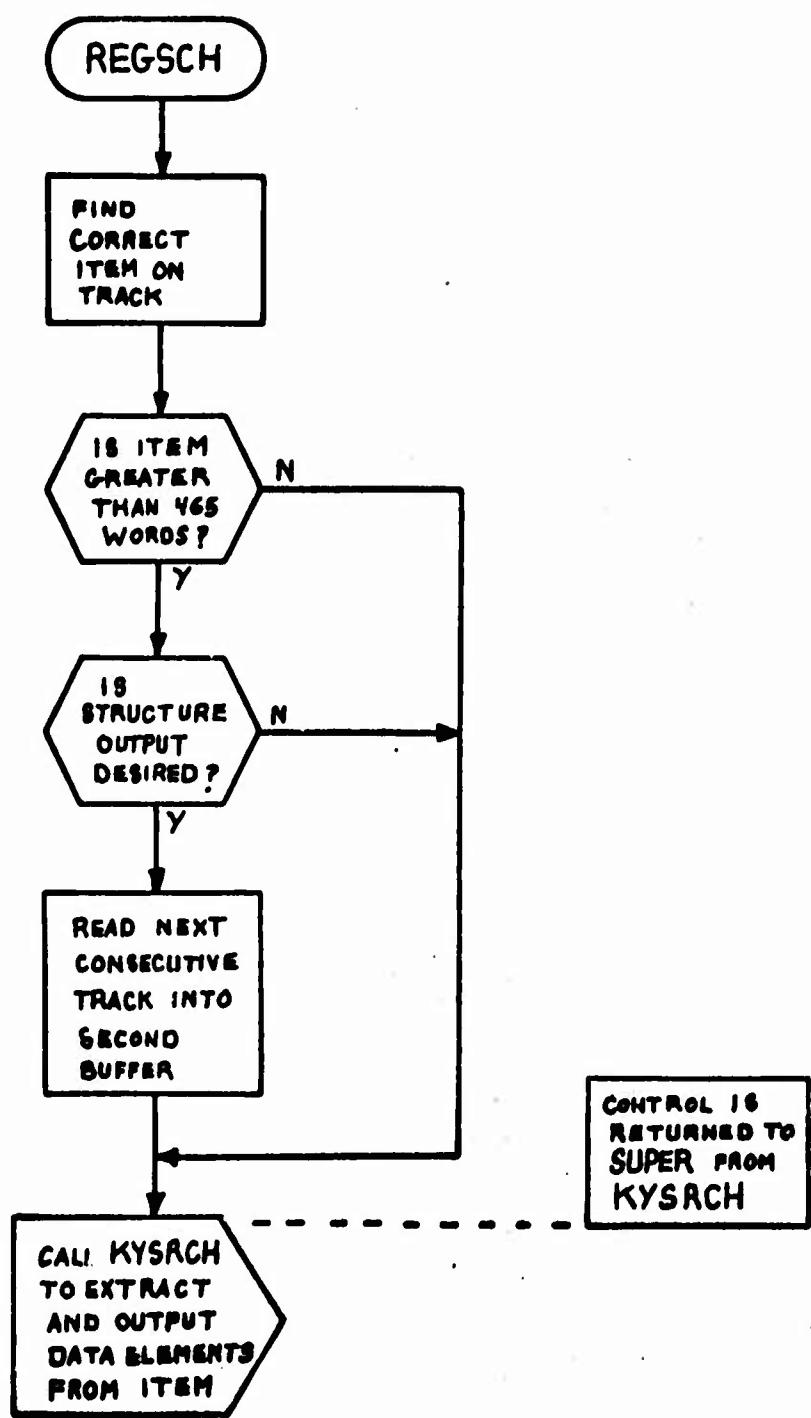
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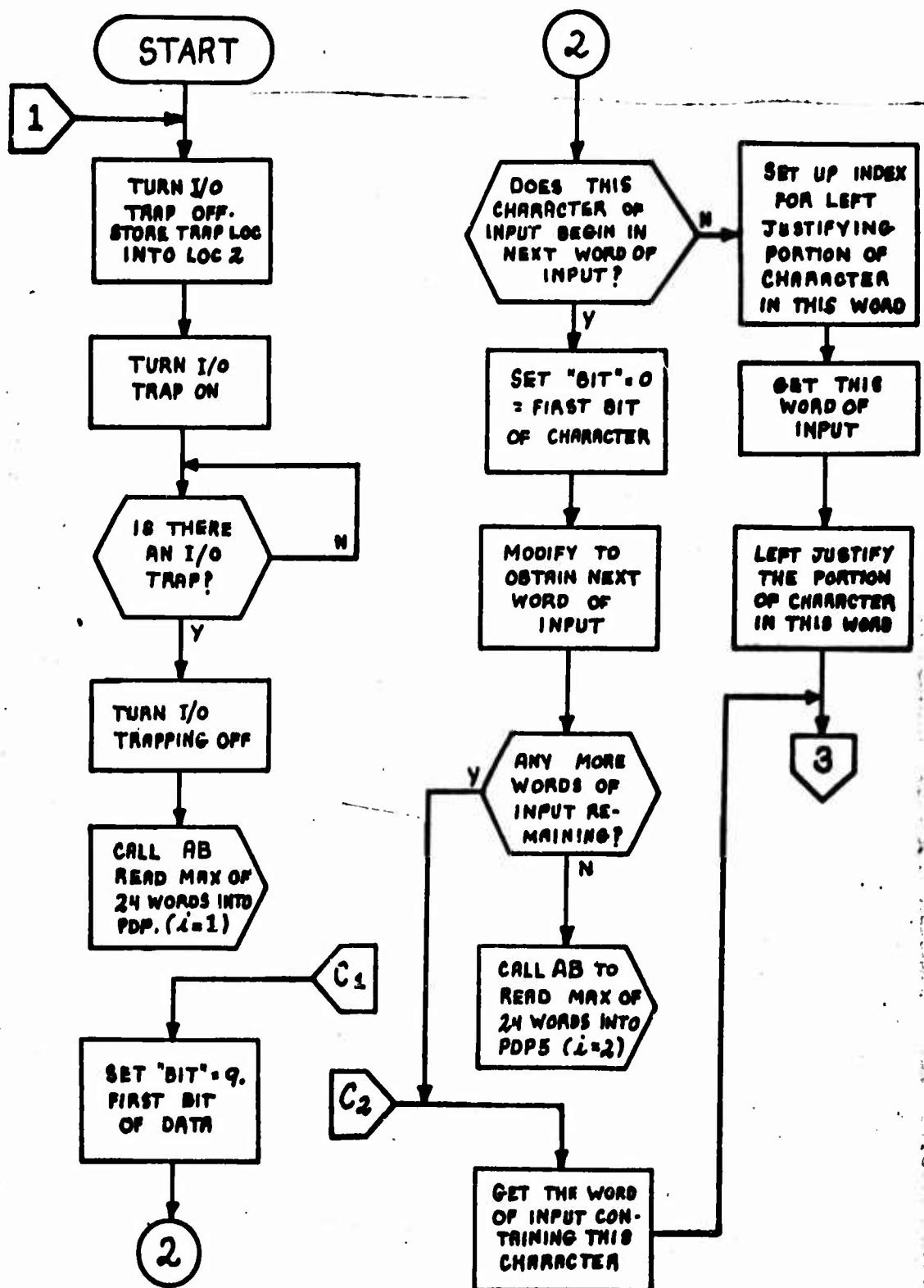
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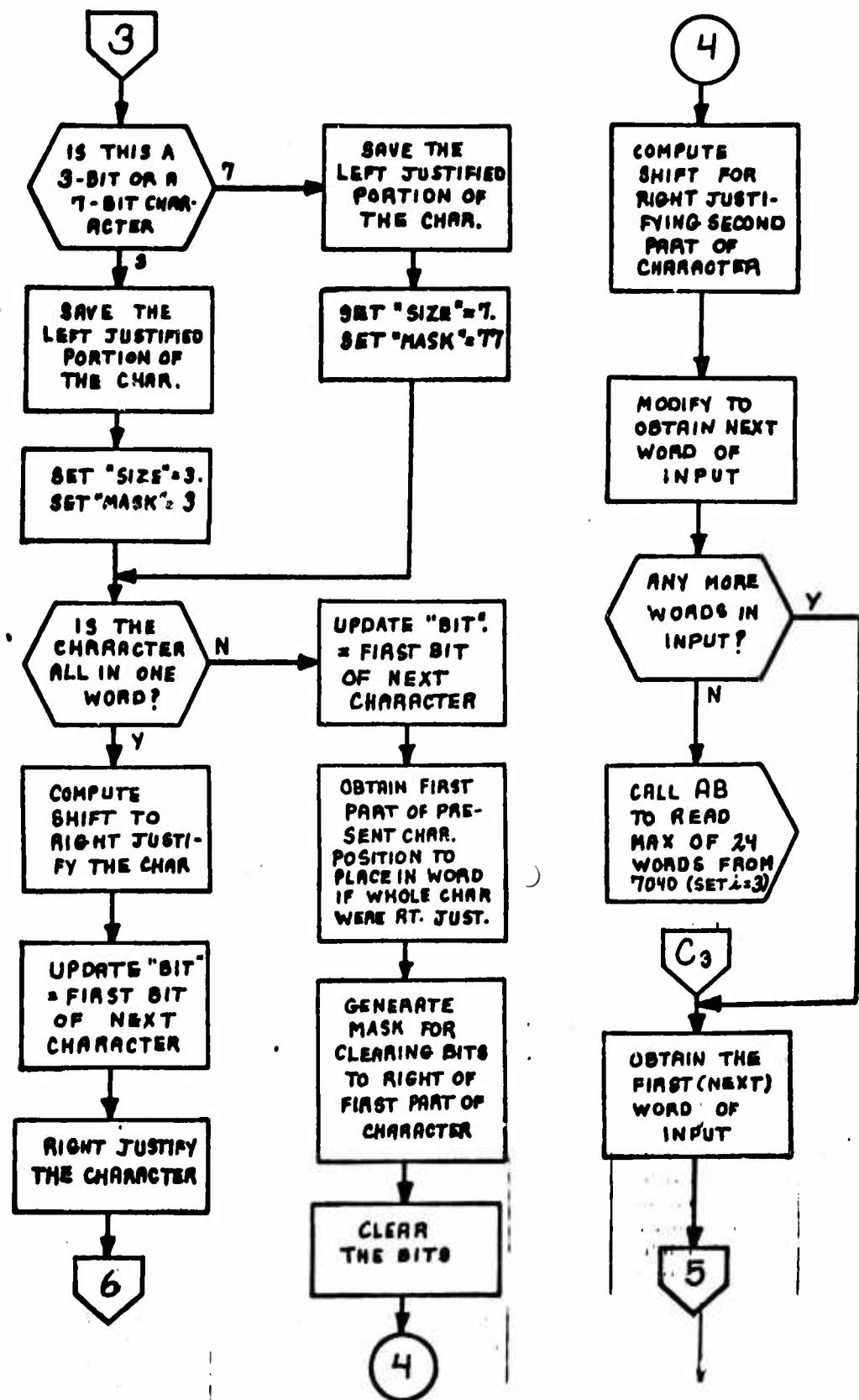
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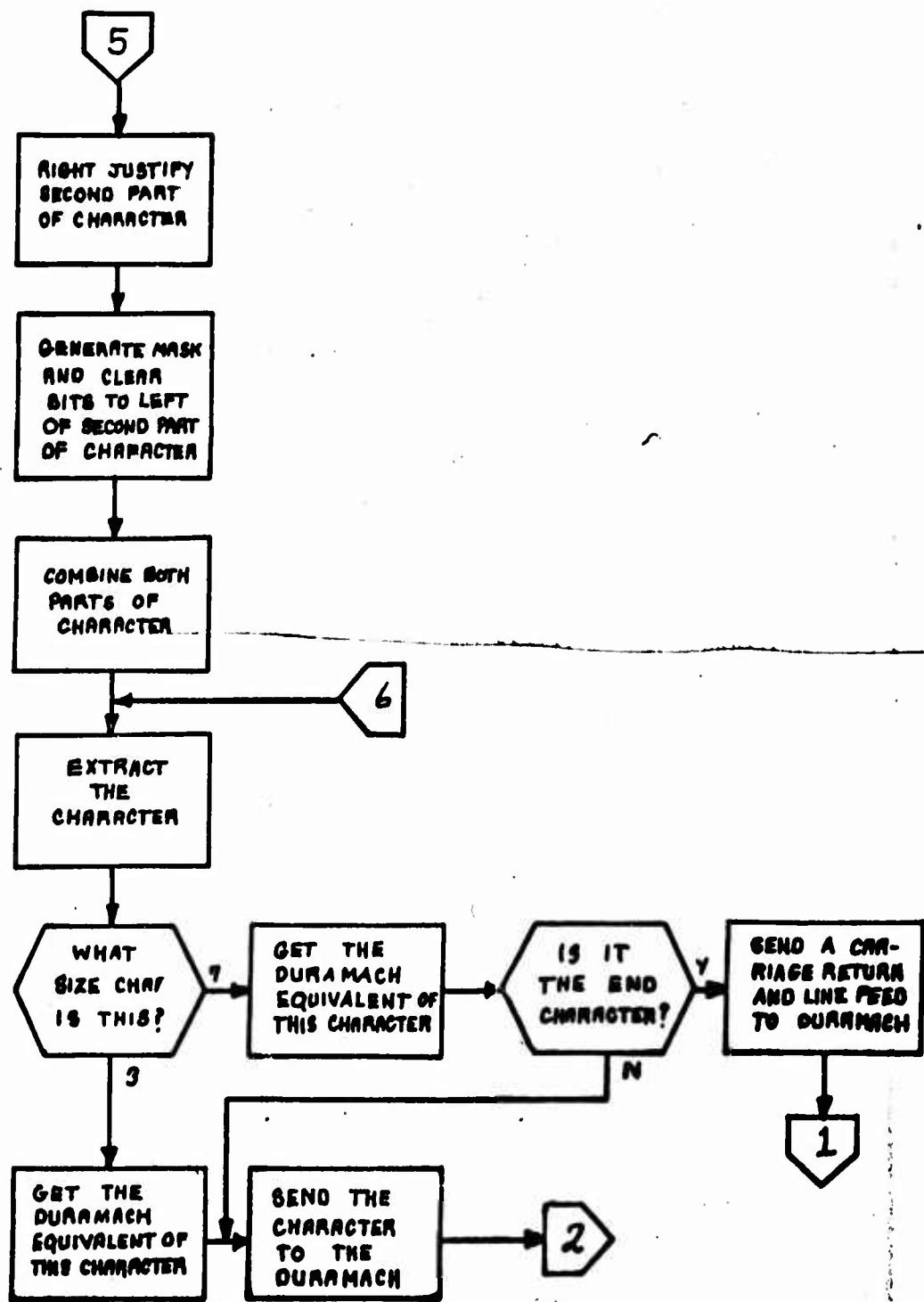
Detail Flow Chart for REGSCH



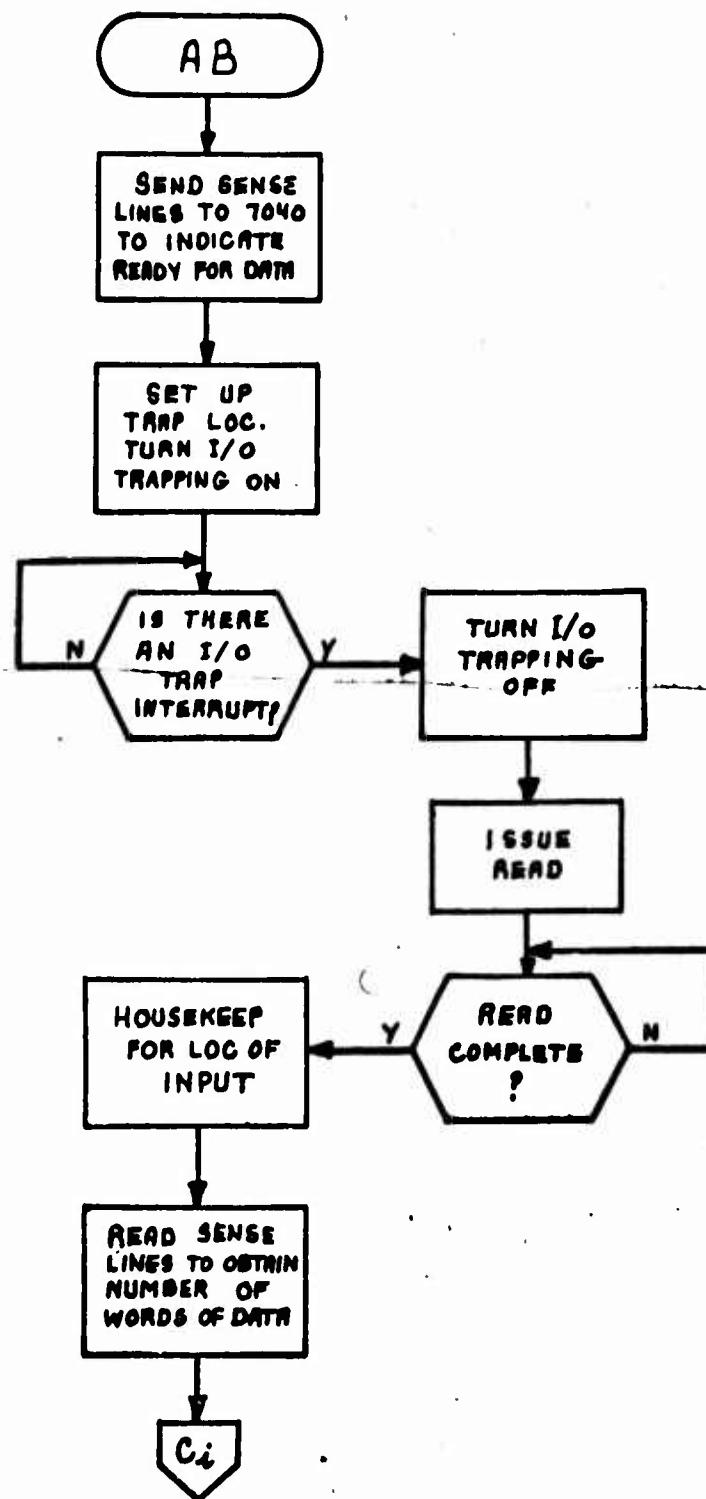
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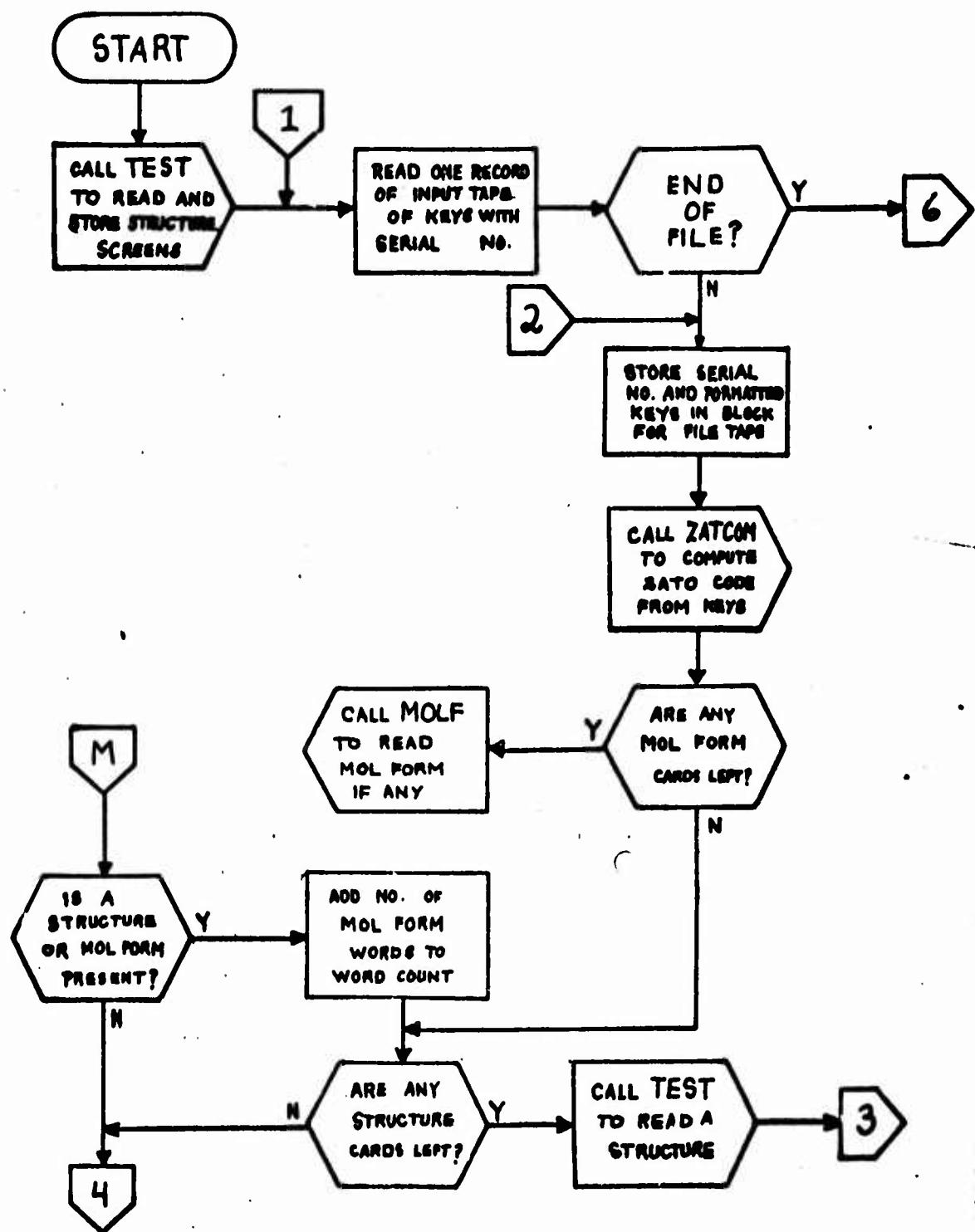
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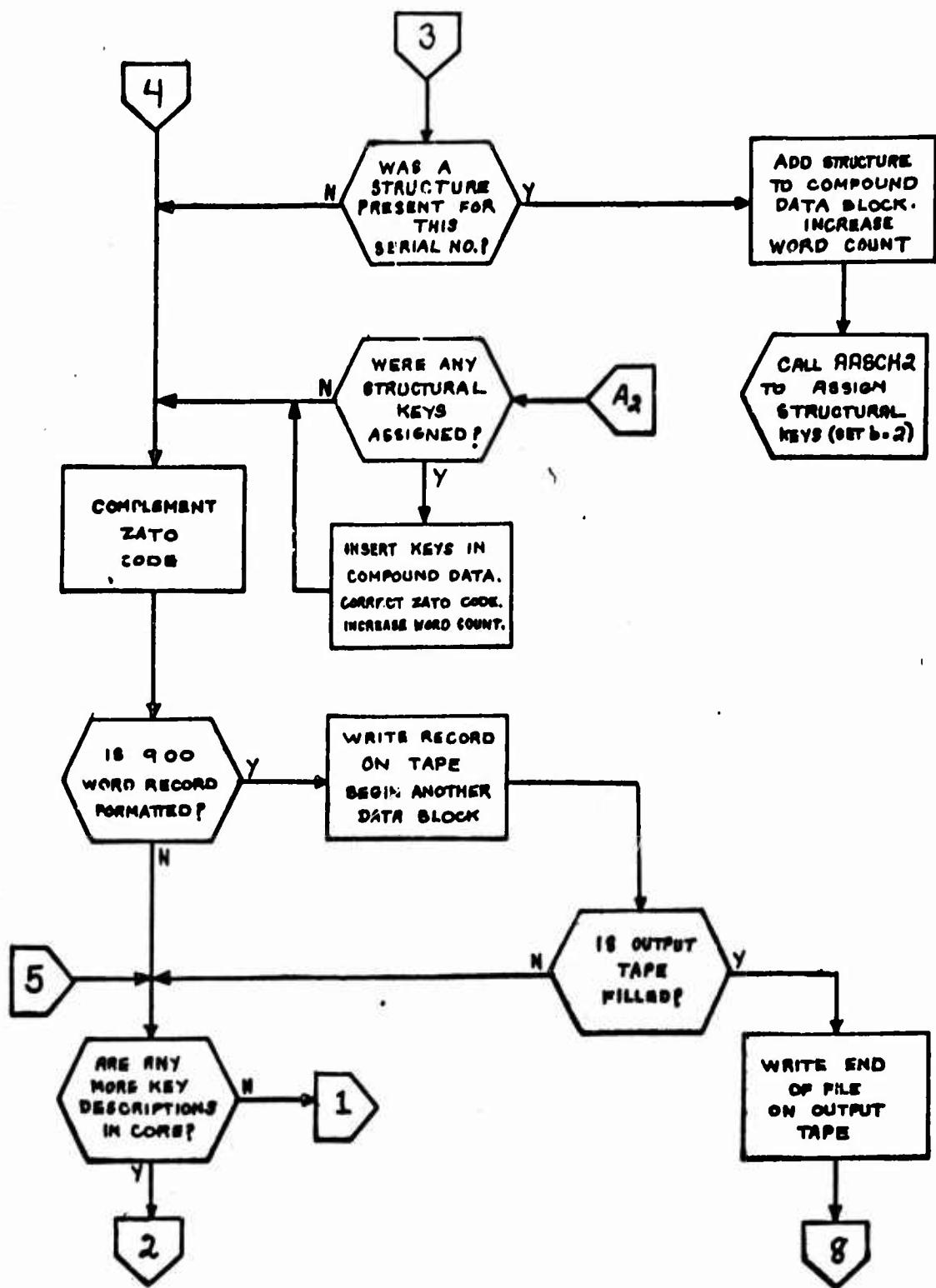


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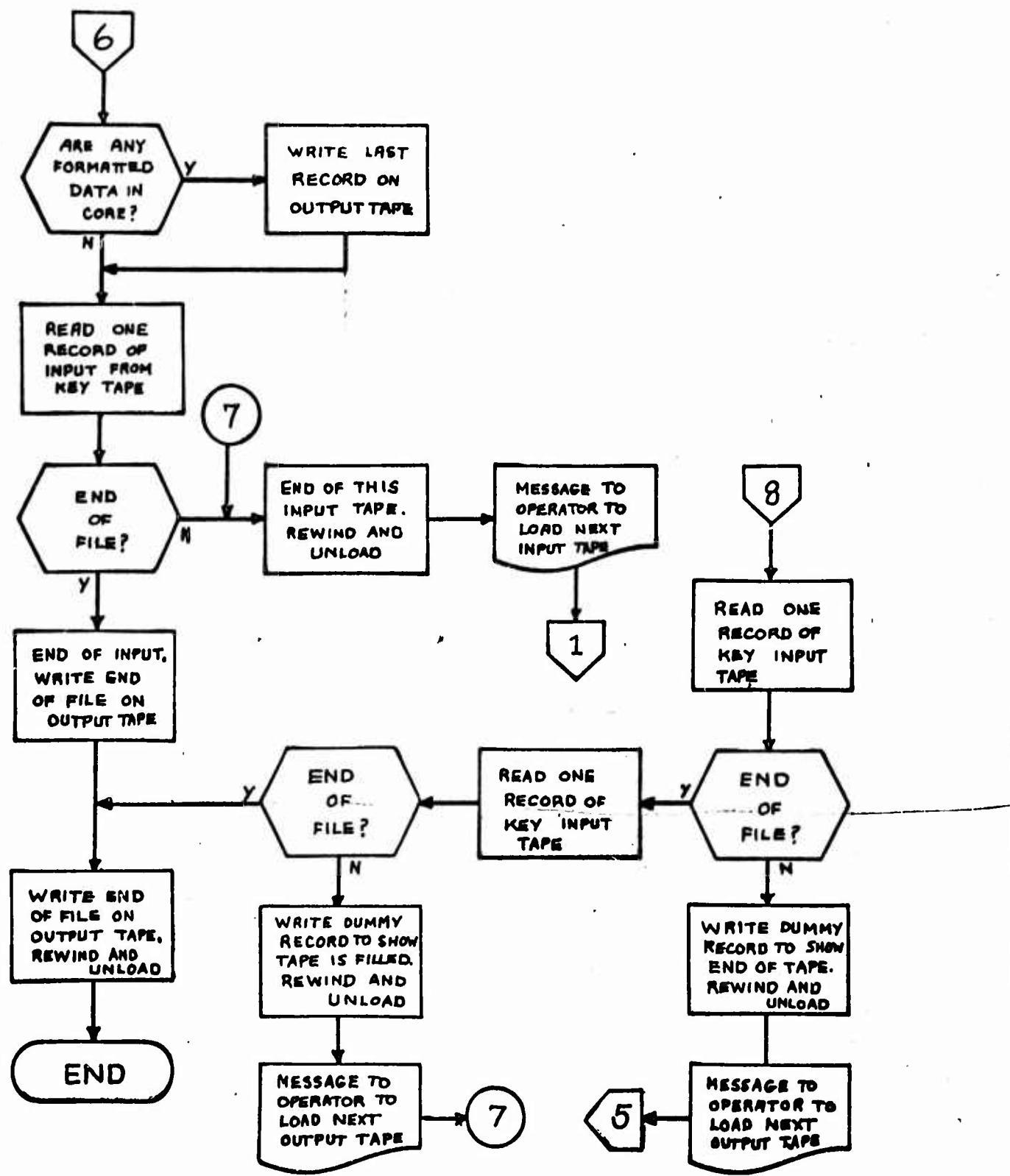


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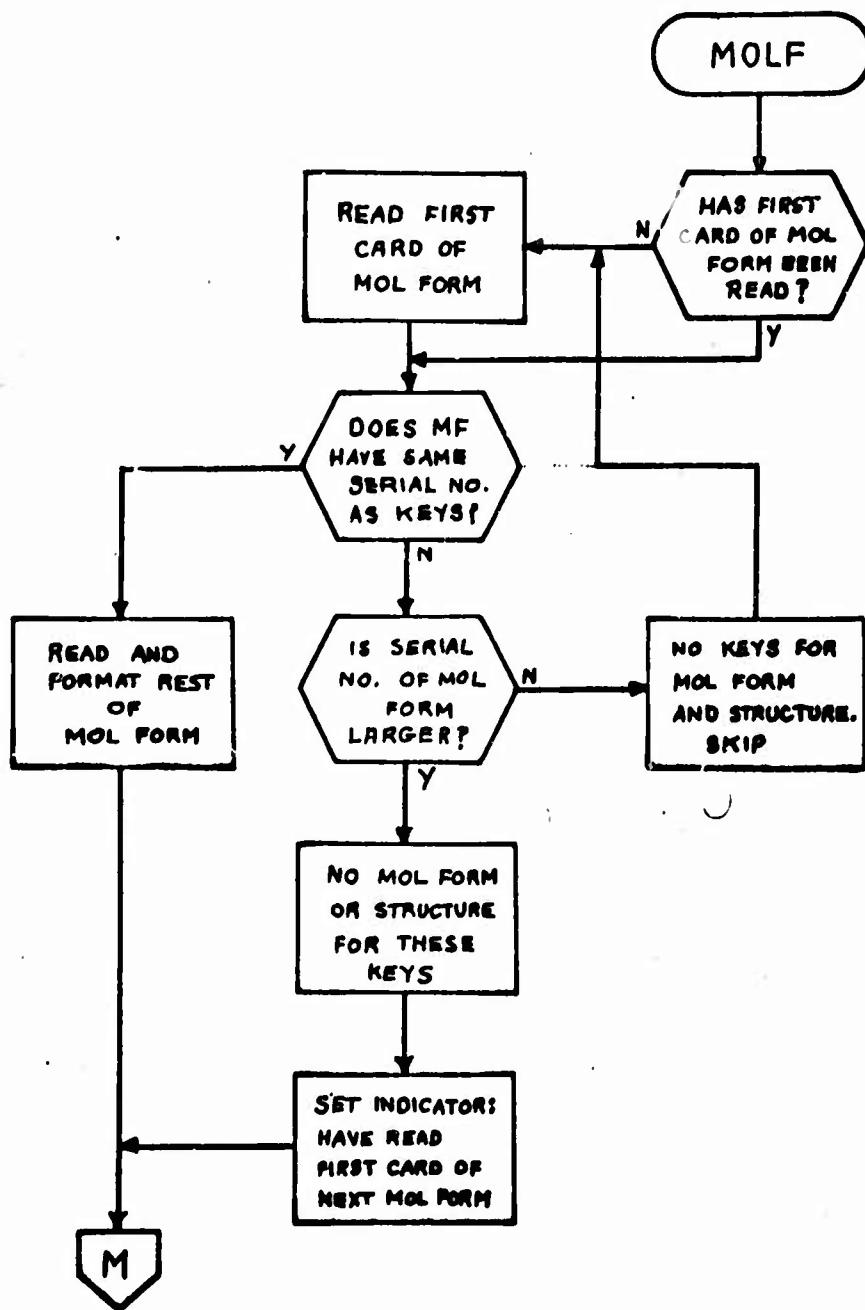




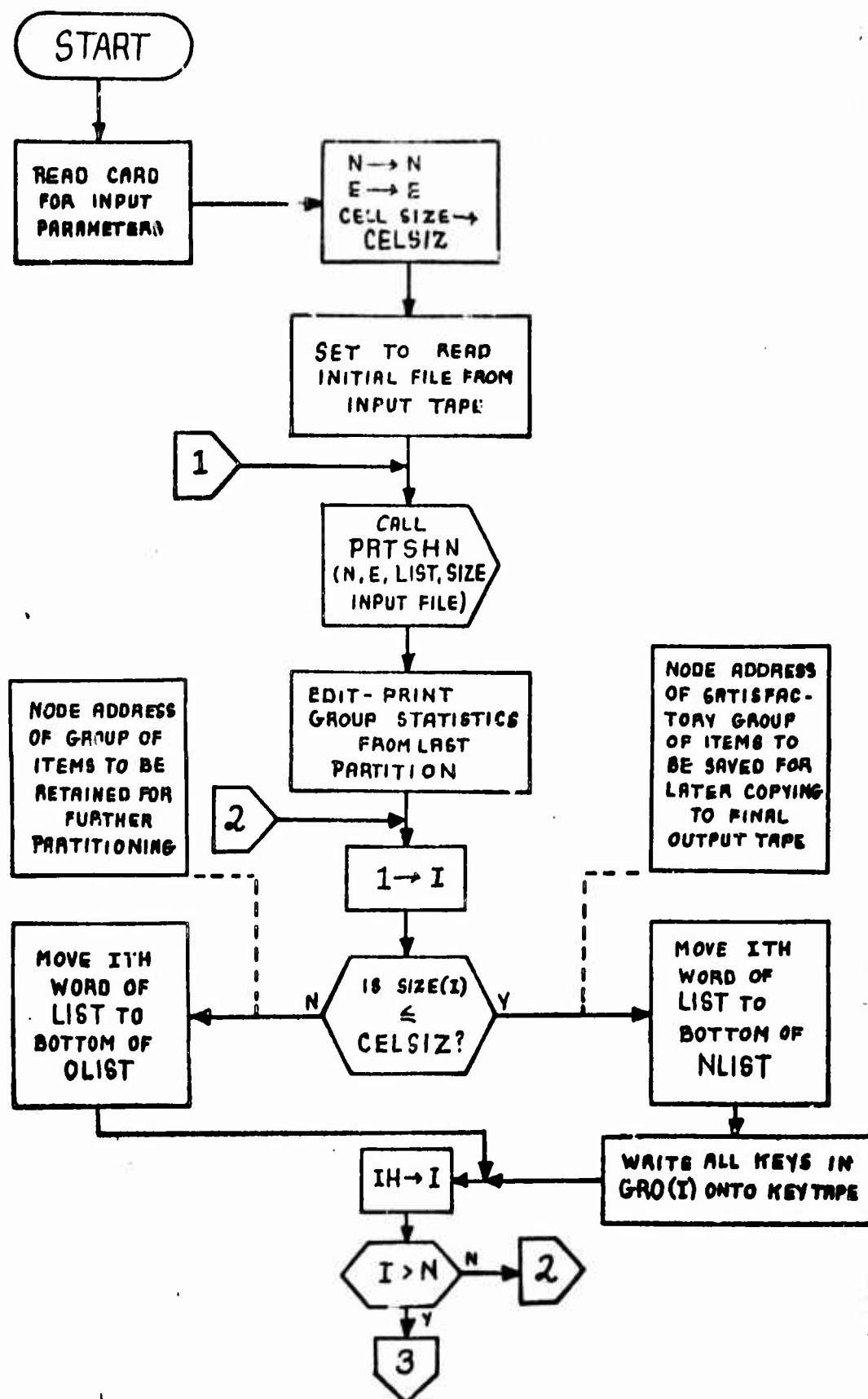
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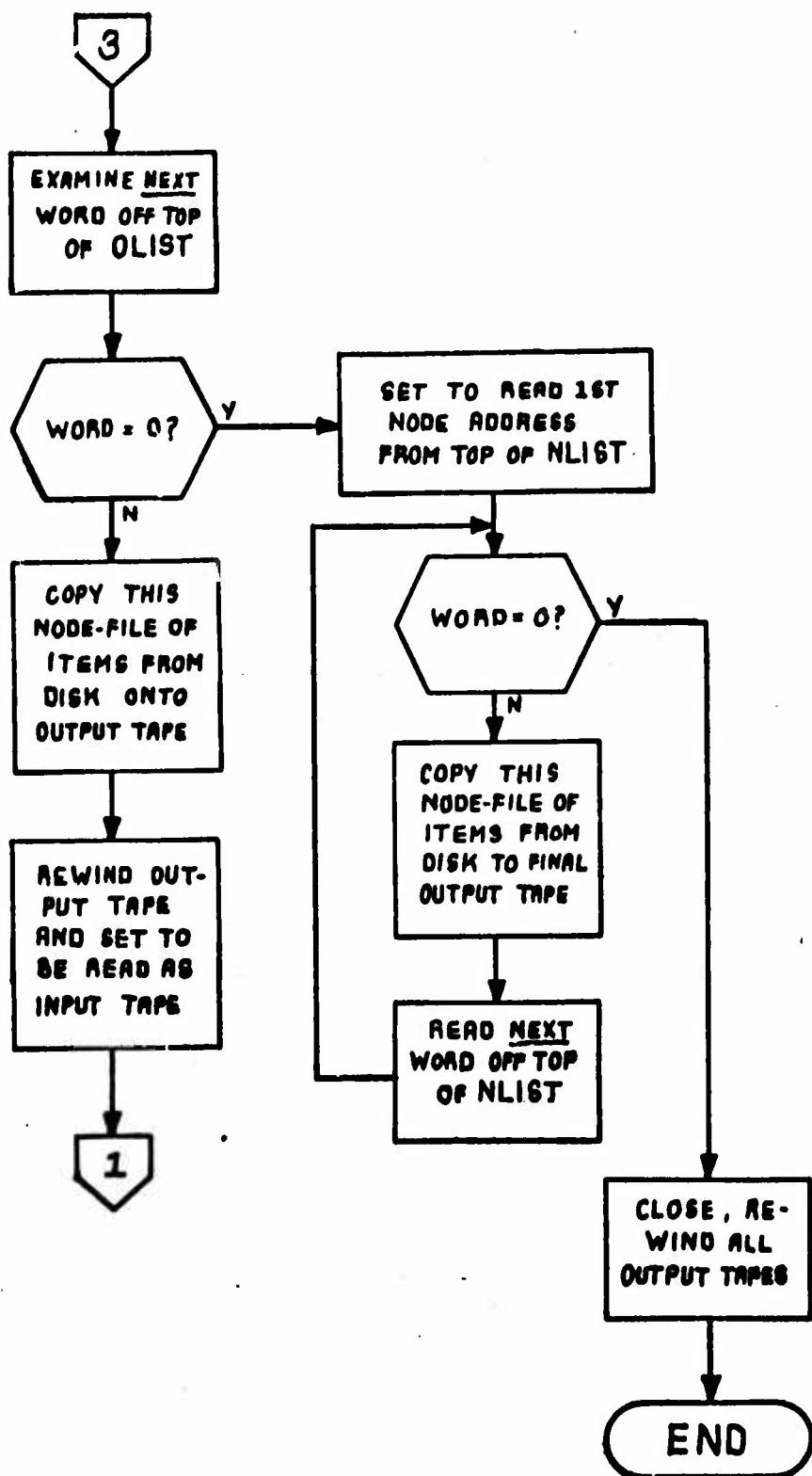
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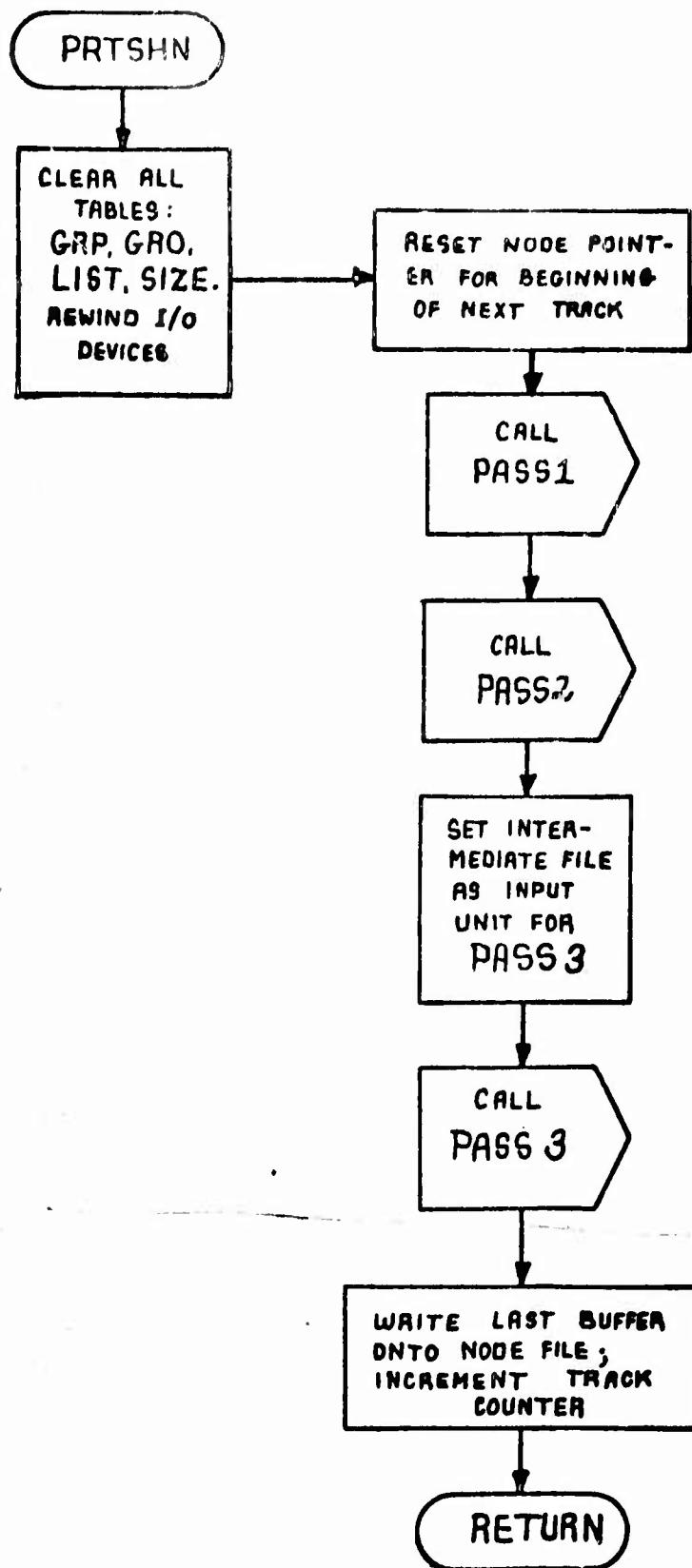
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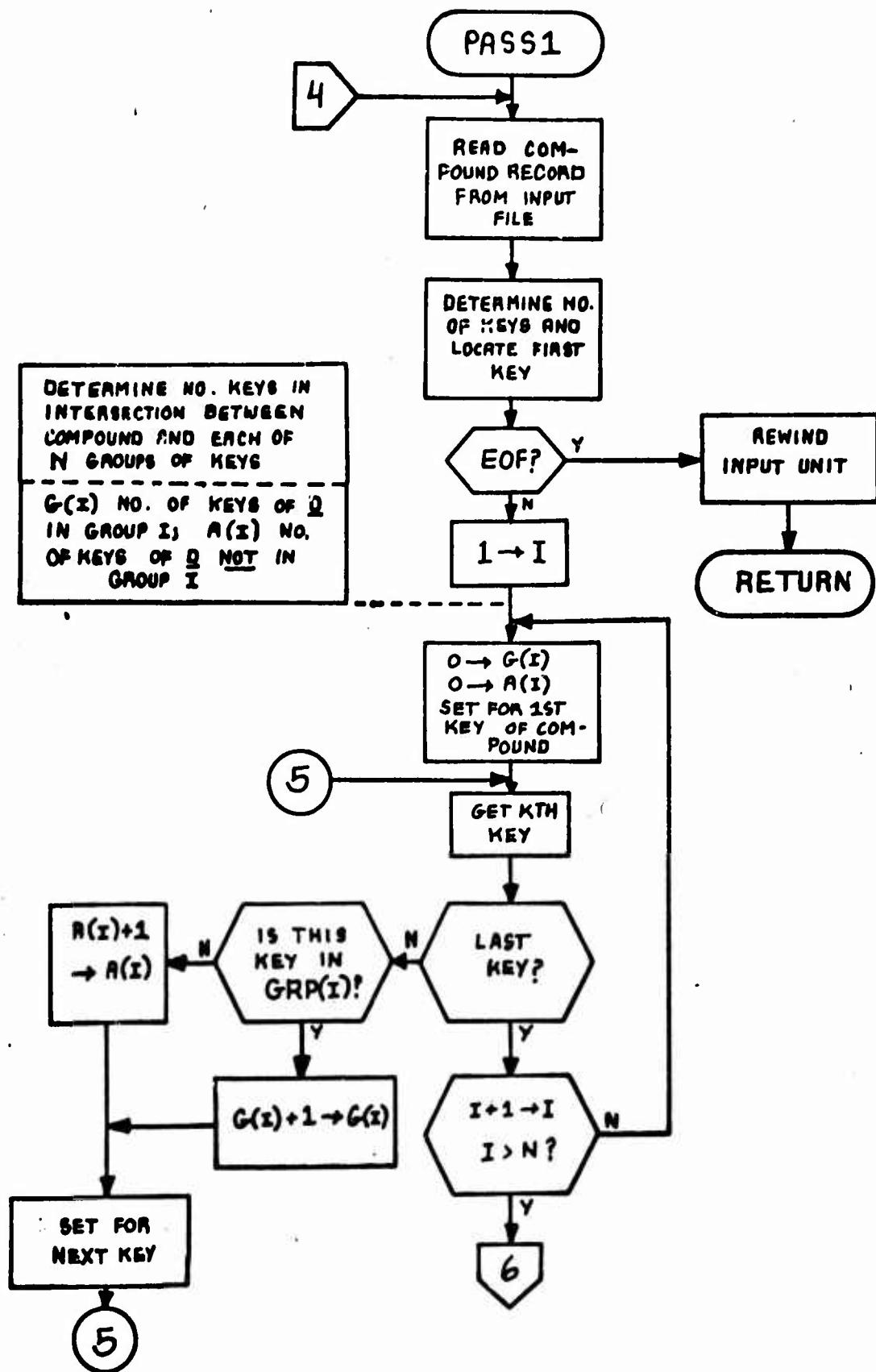
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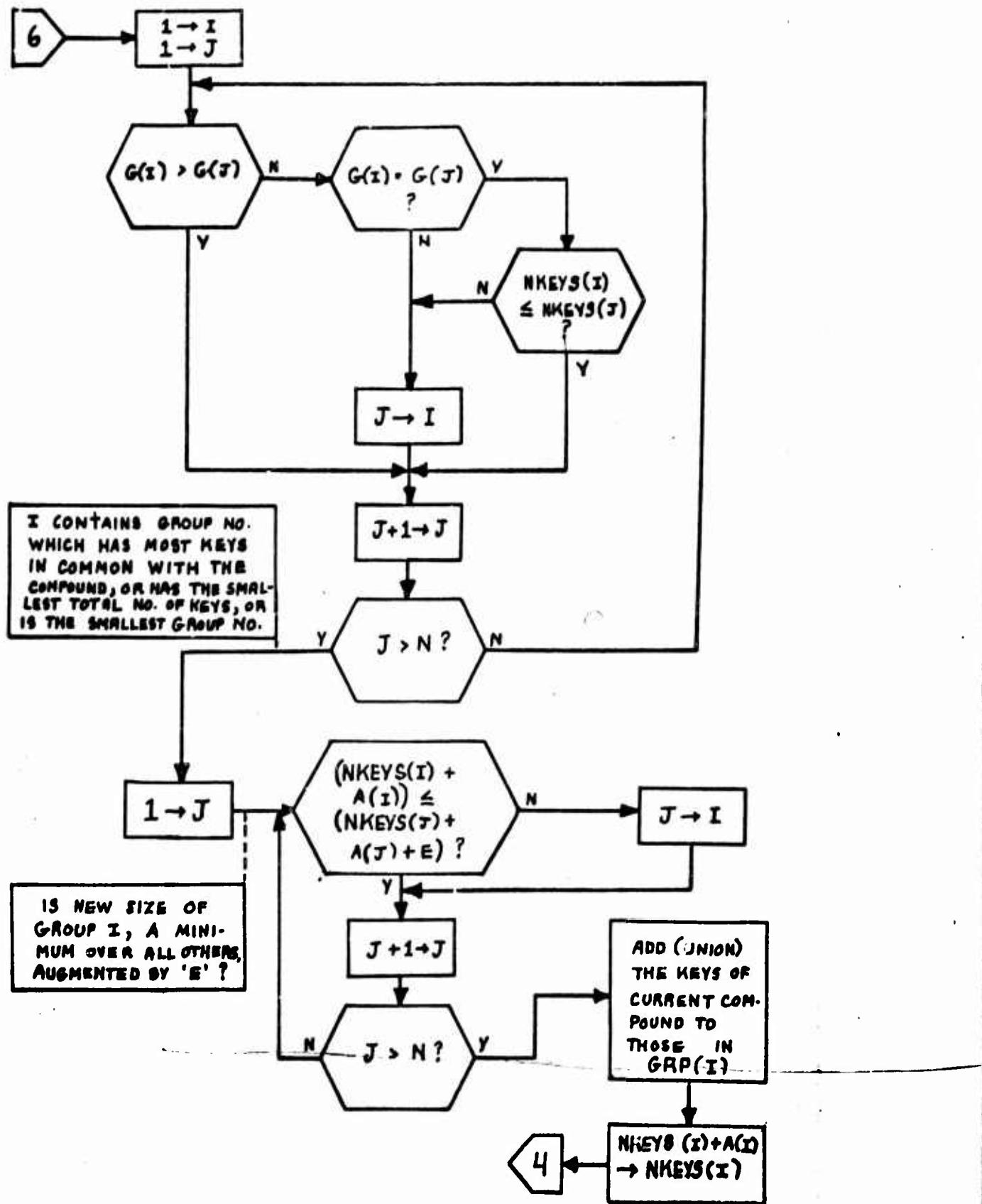


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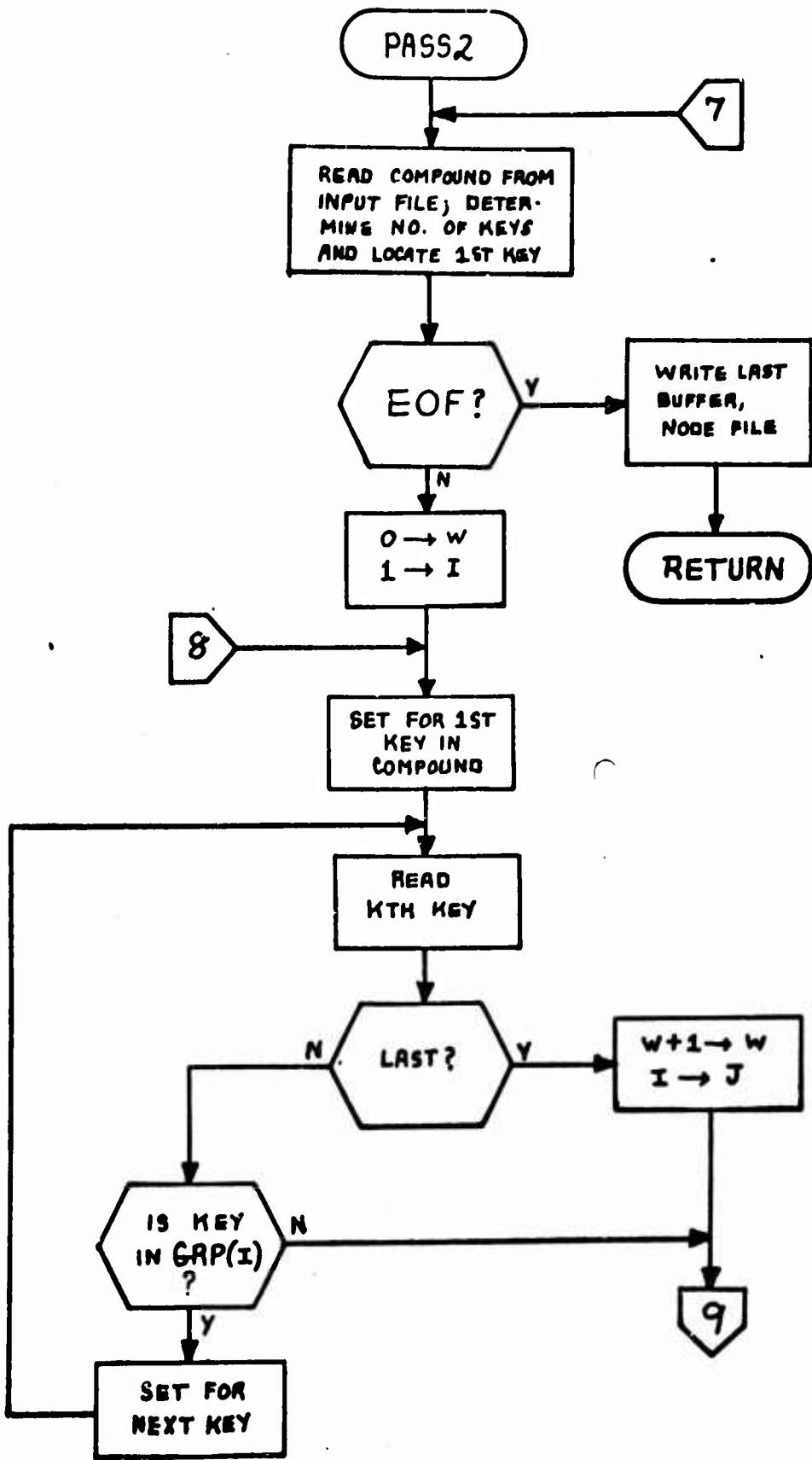


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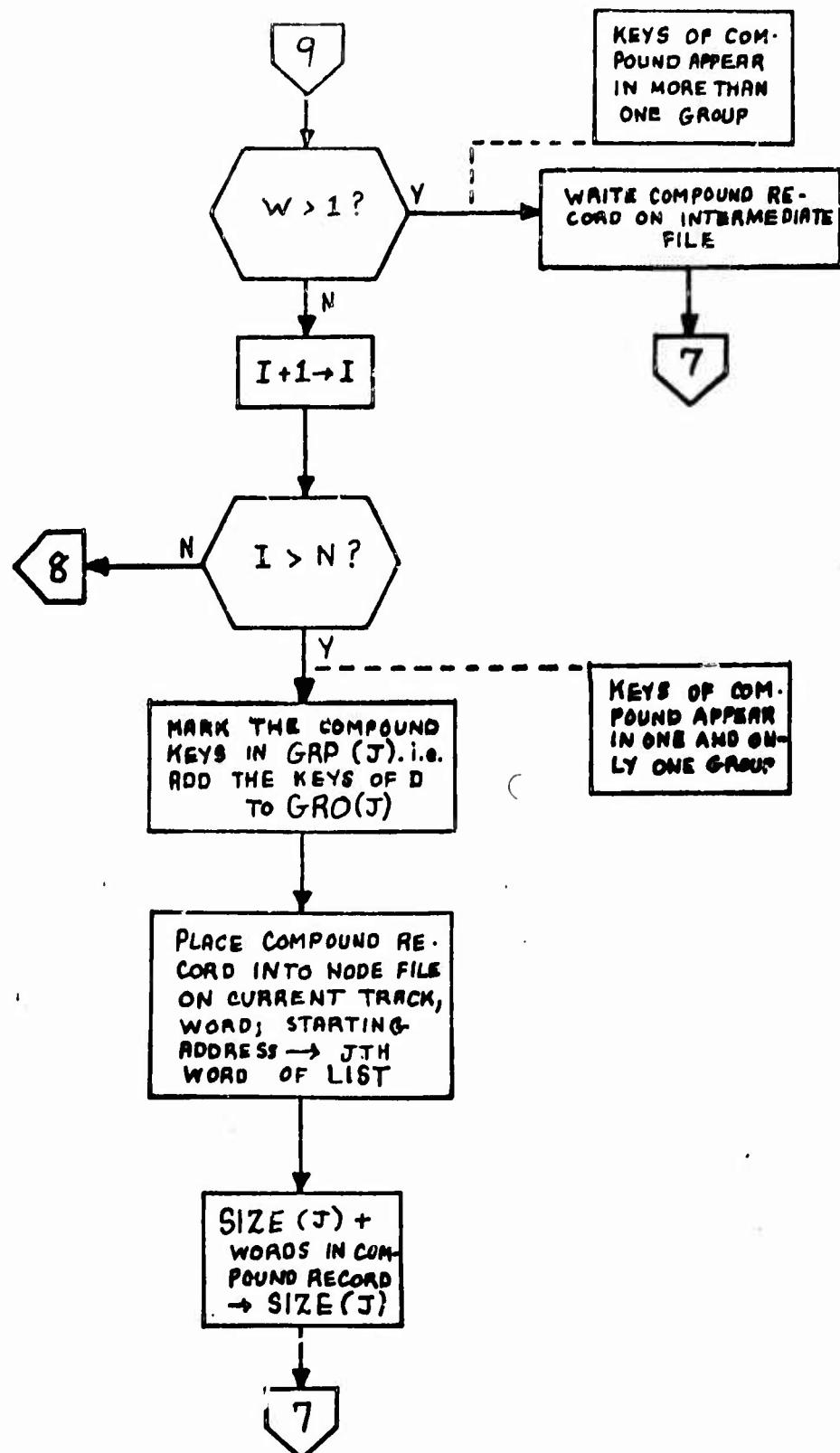




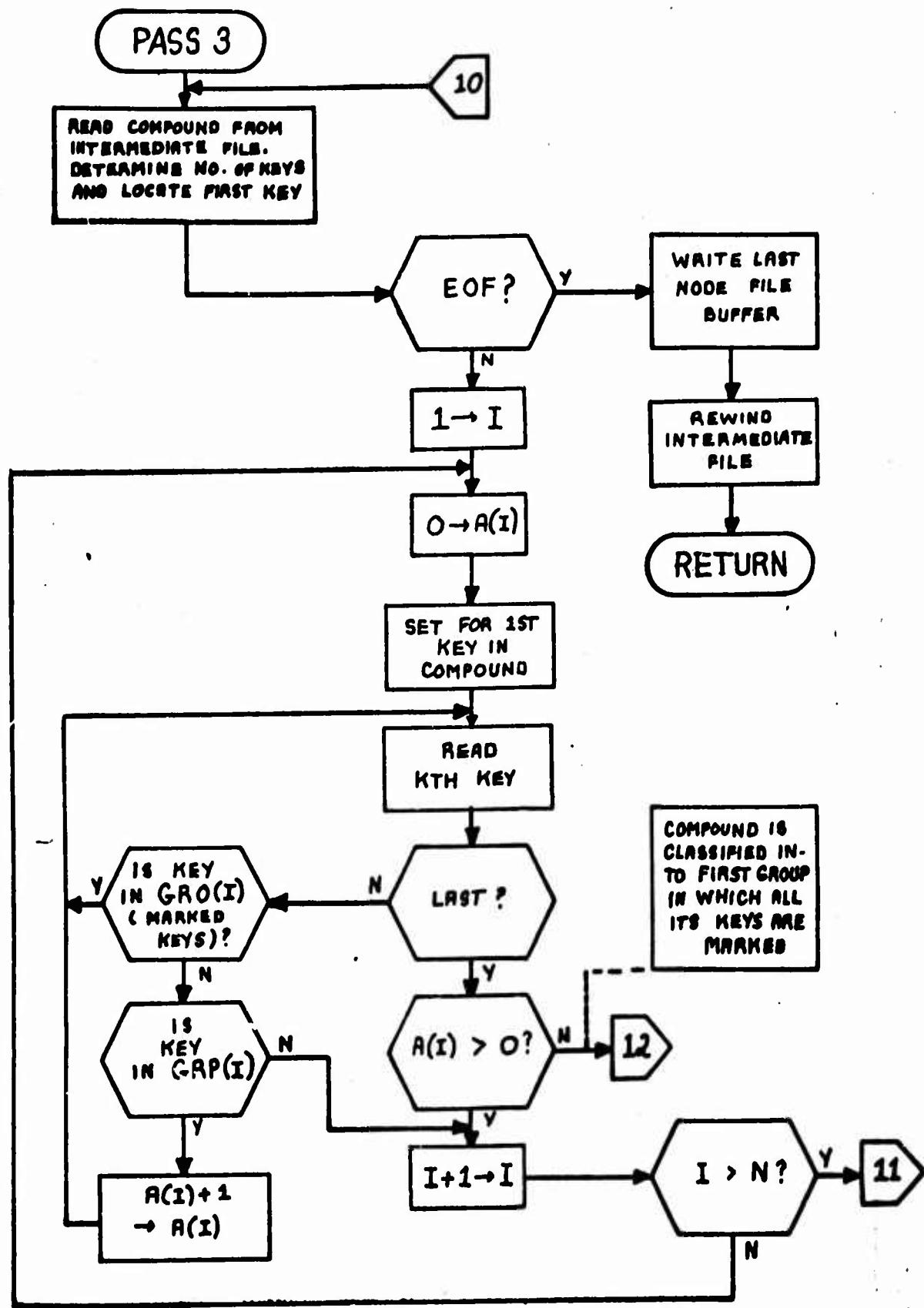
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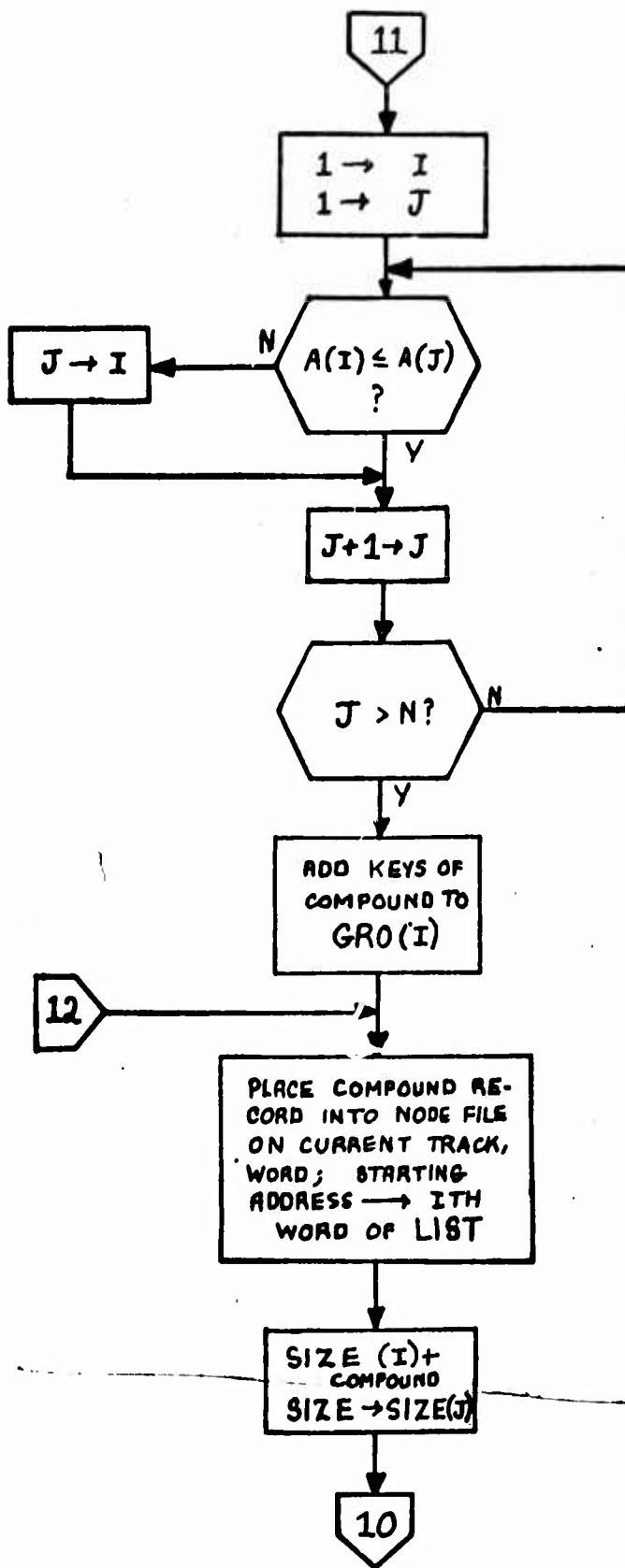
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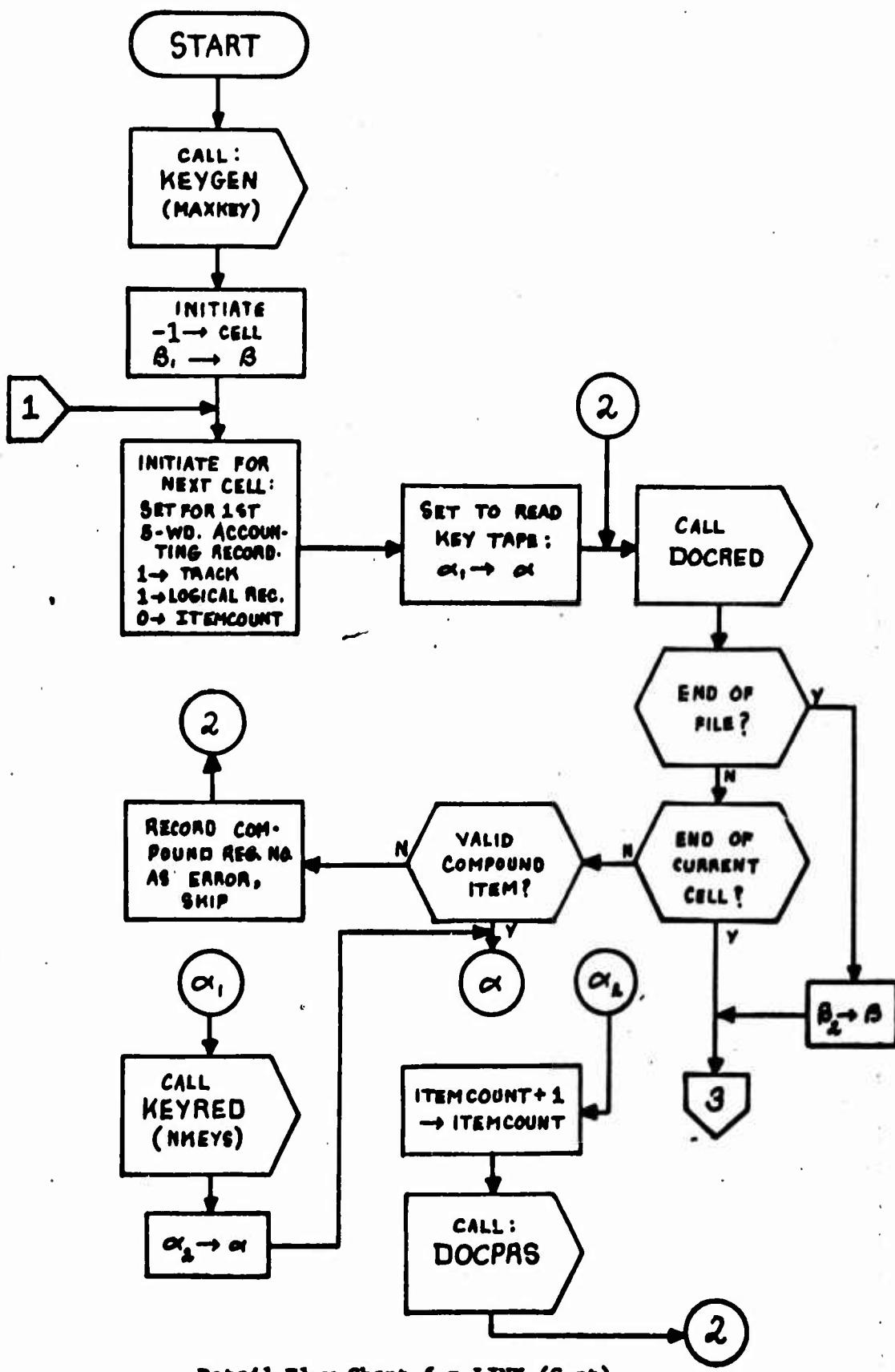
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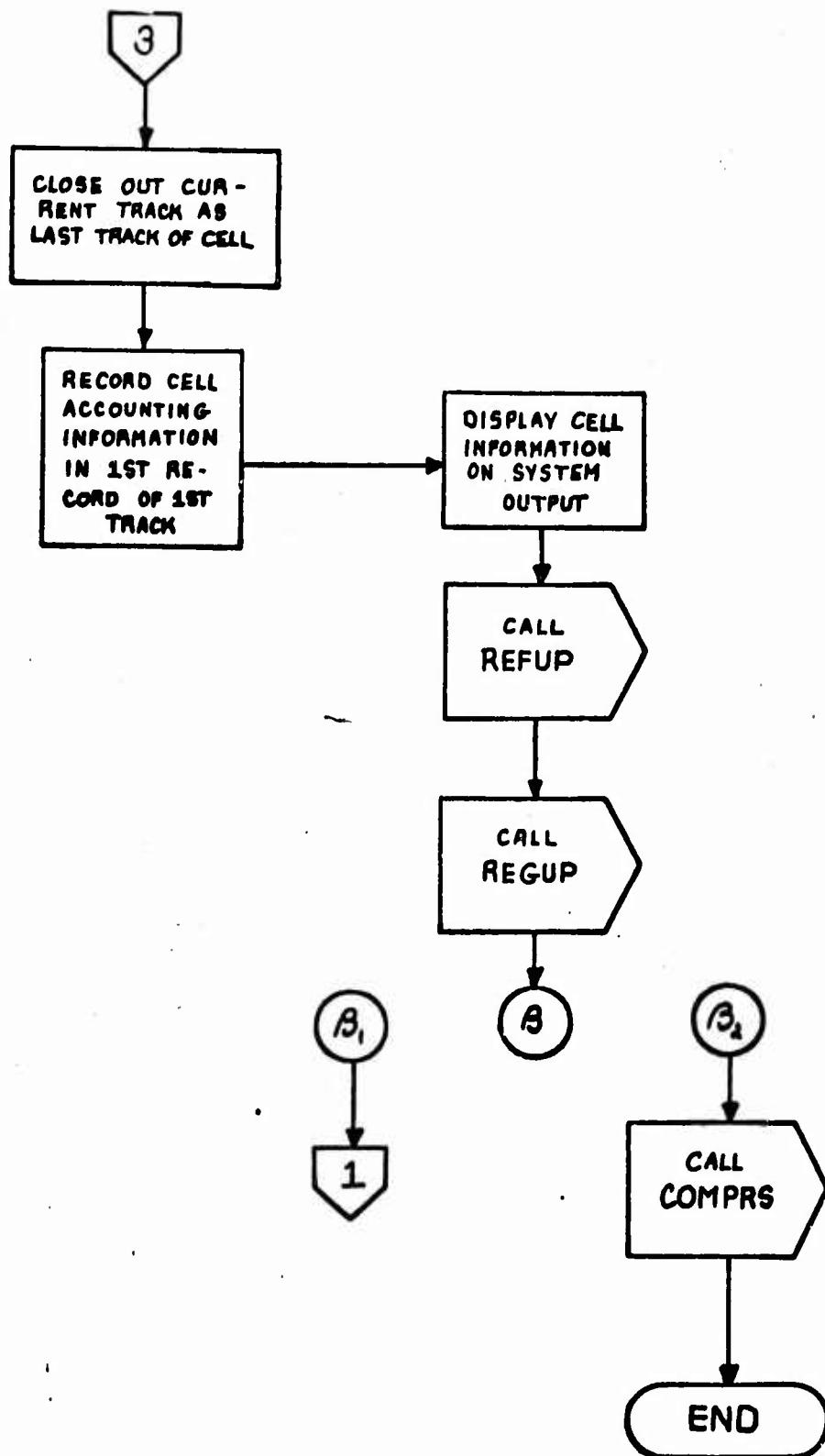


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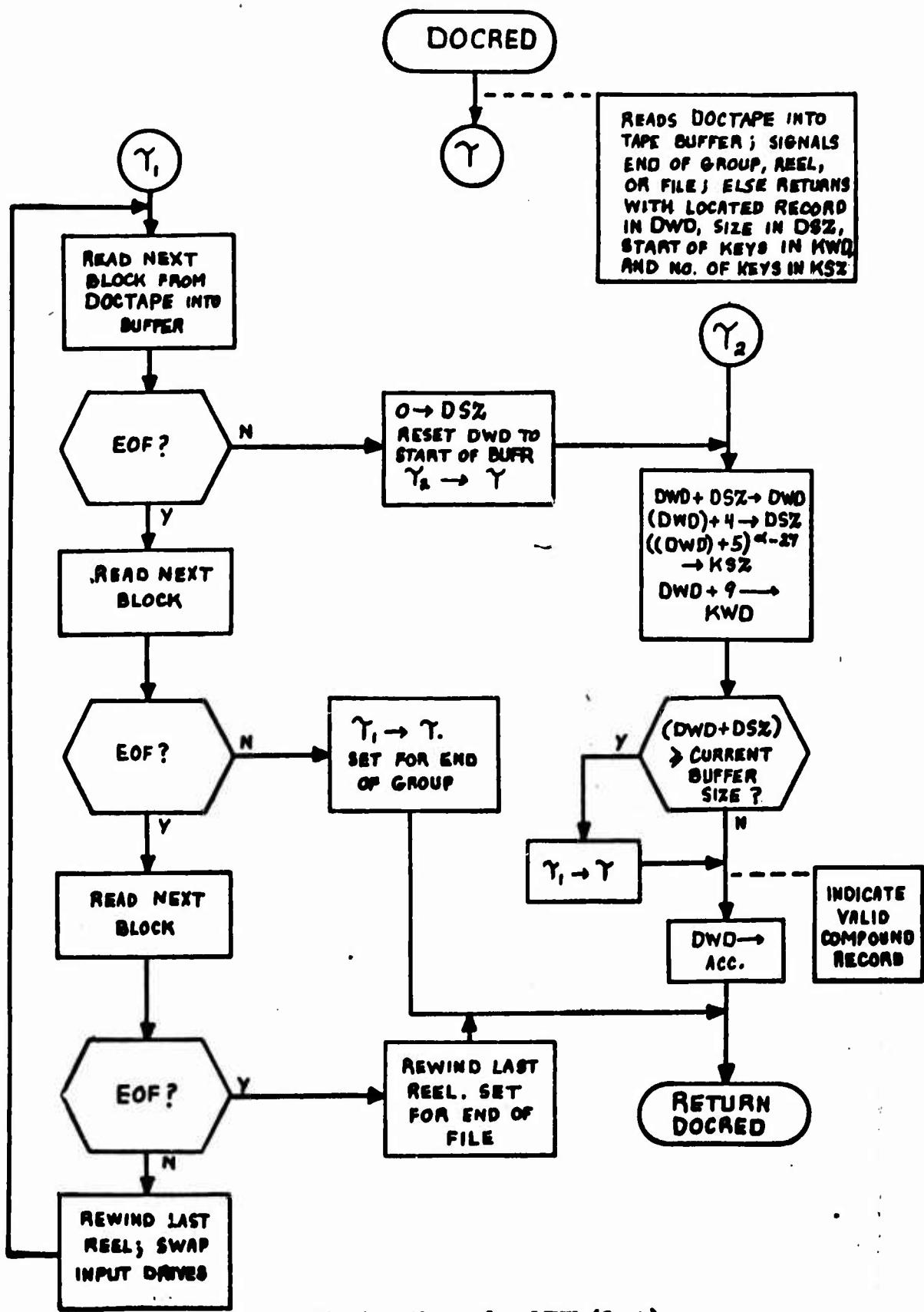


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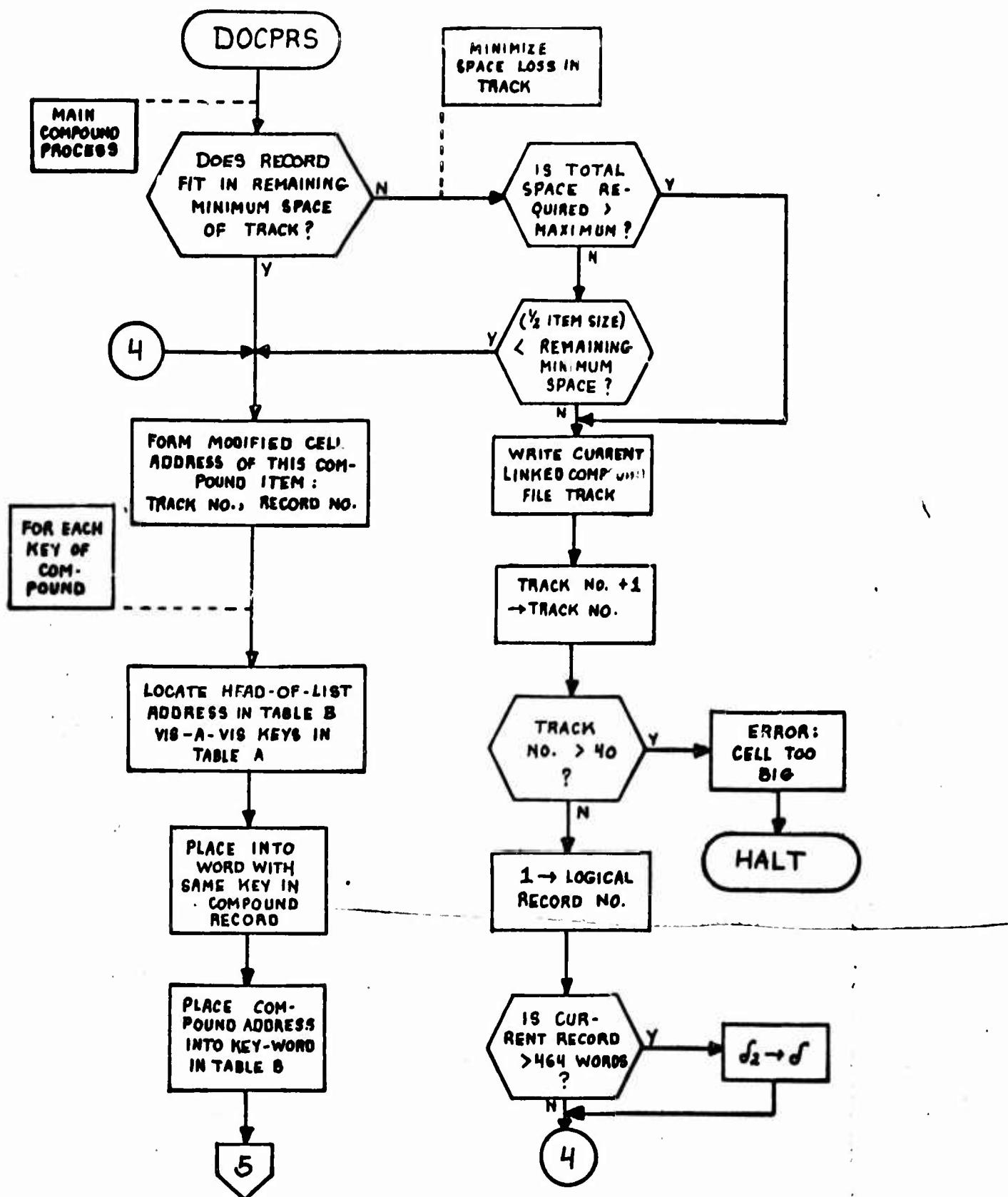


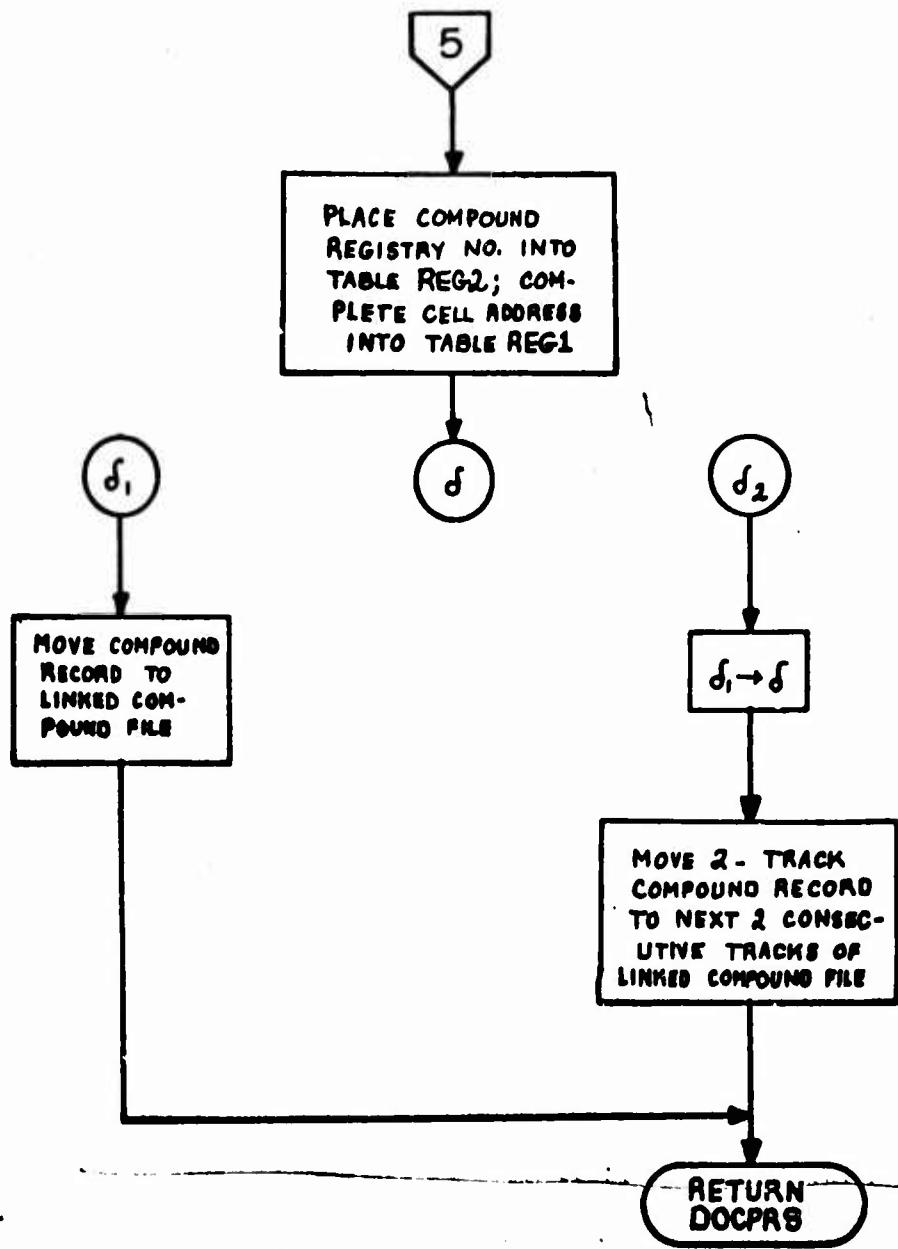


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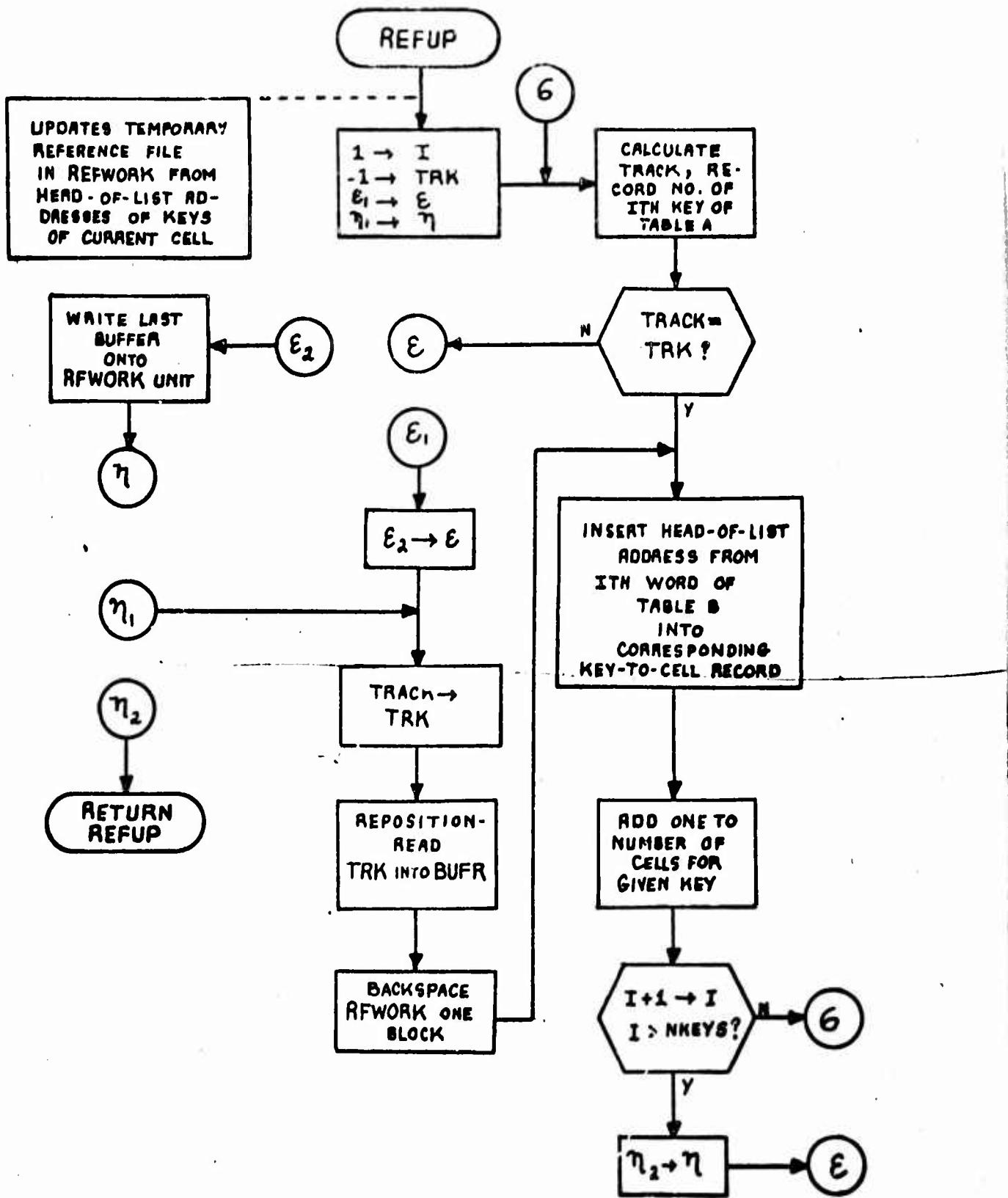


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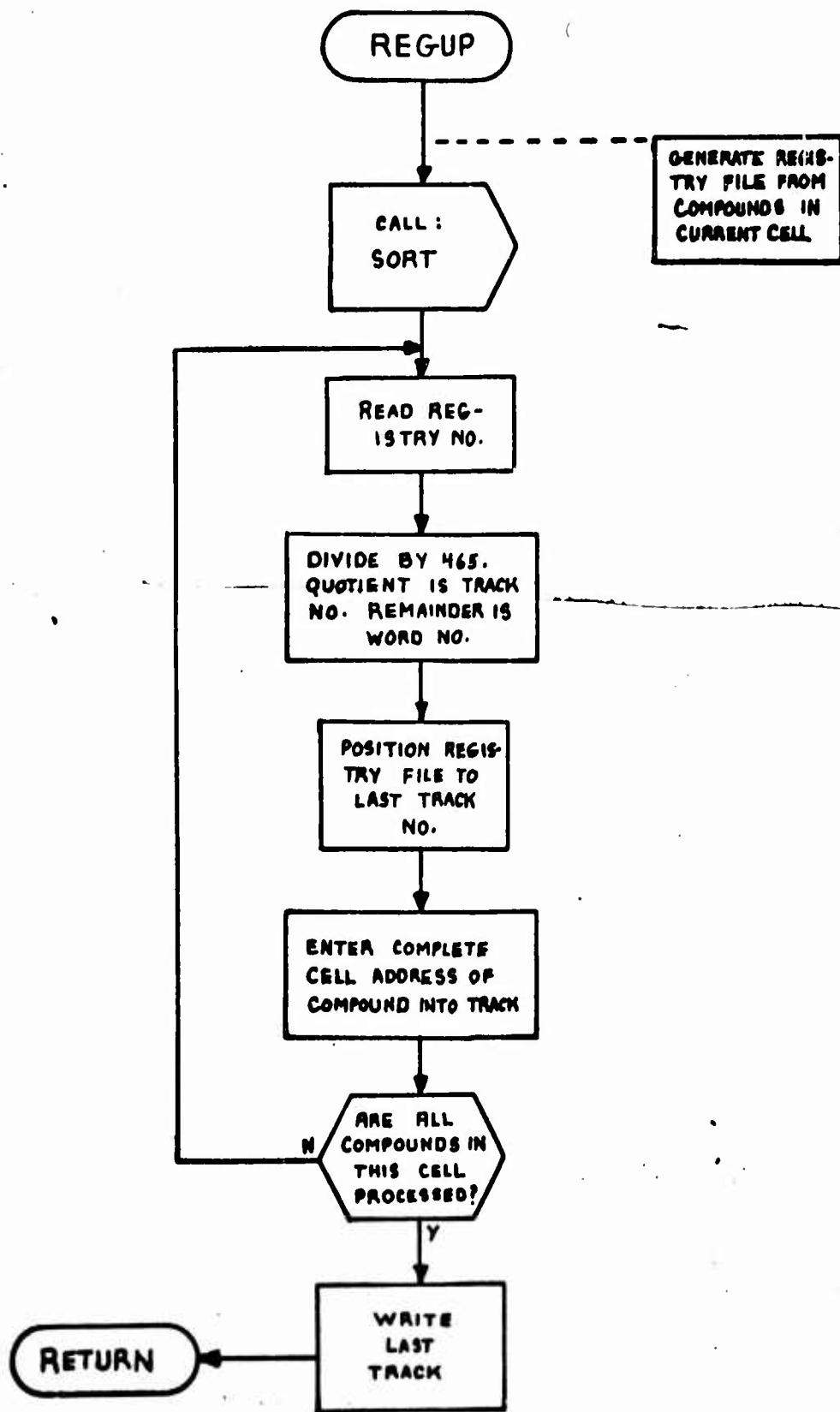




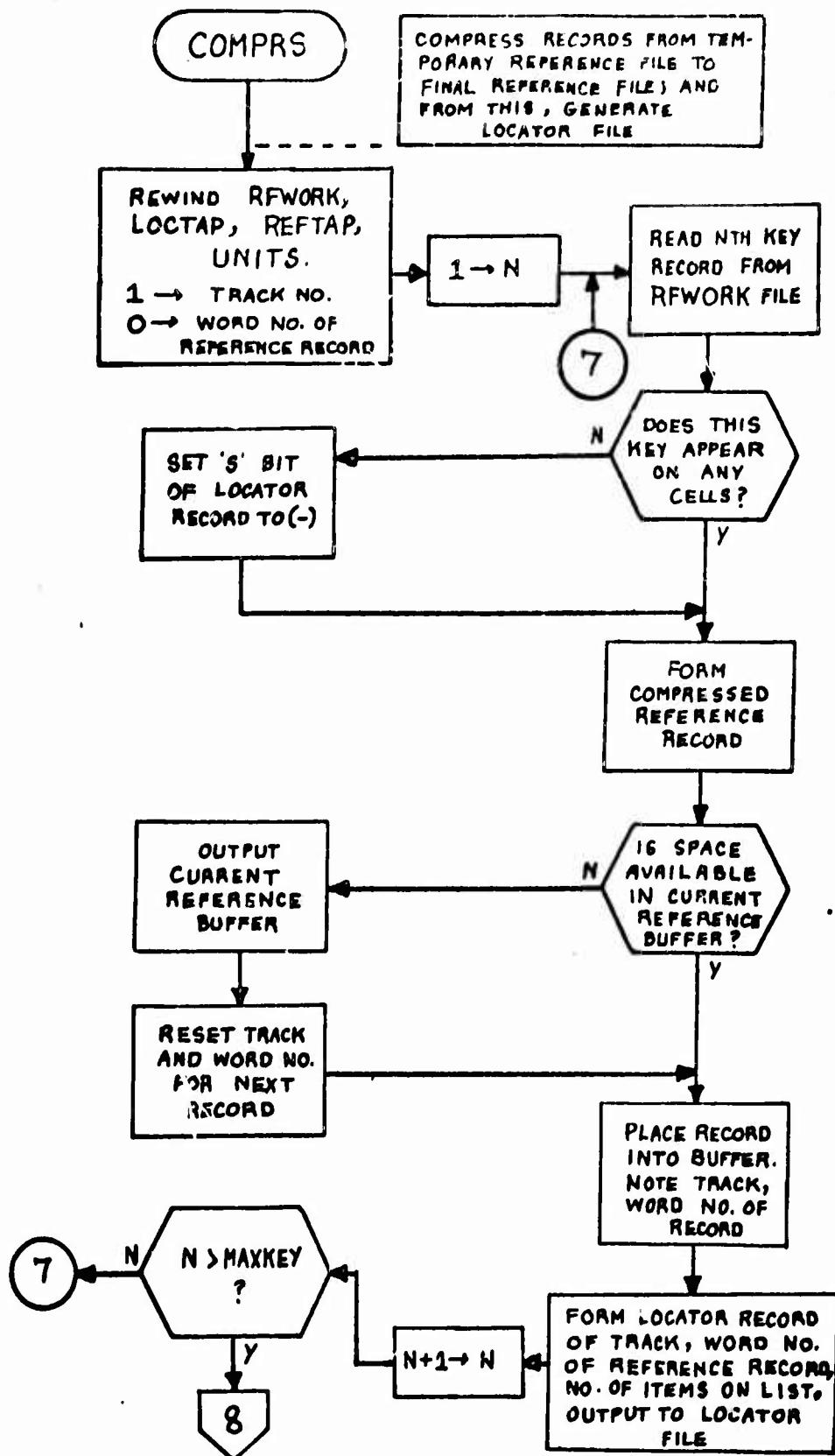
Detail Flow Chart for LINK (Cont)



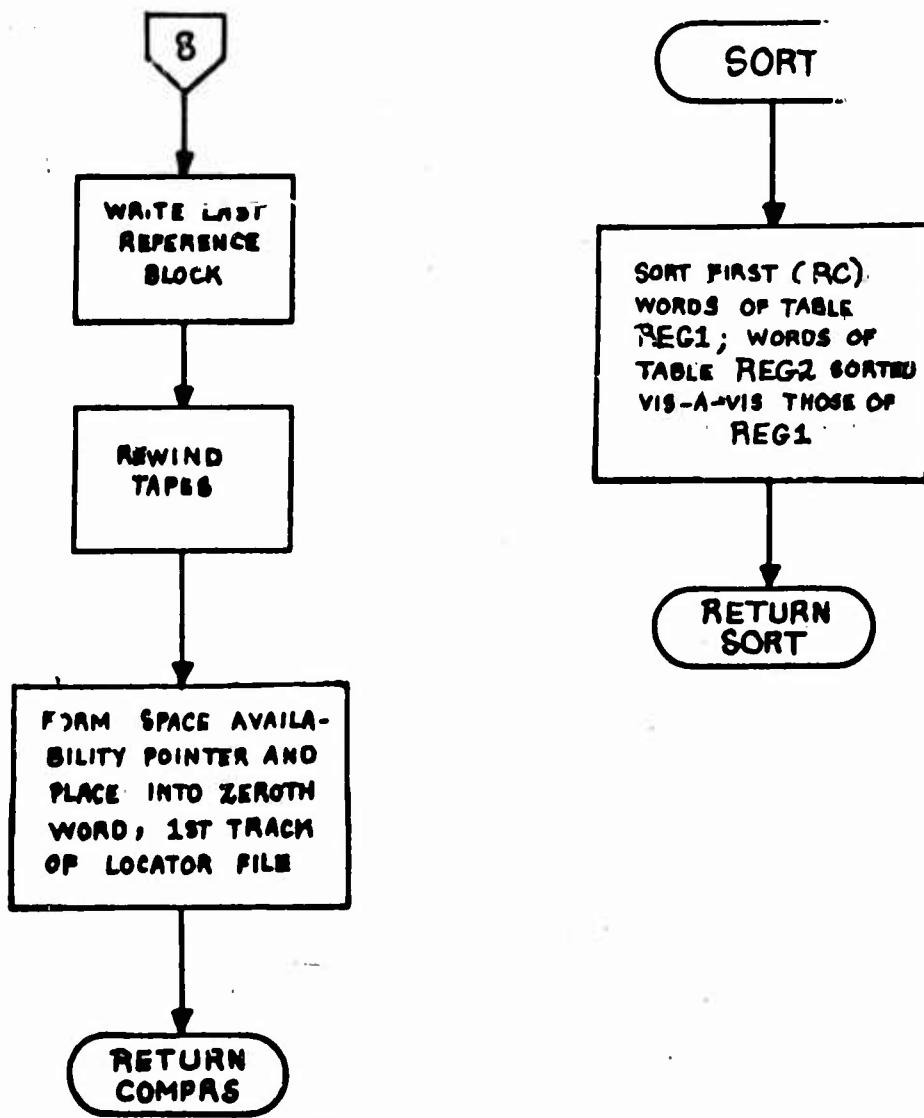
Detail Flow Chart for LINK (Cont)



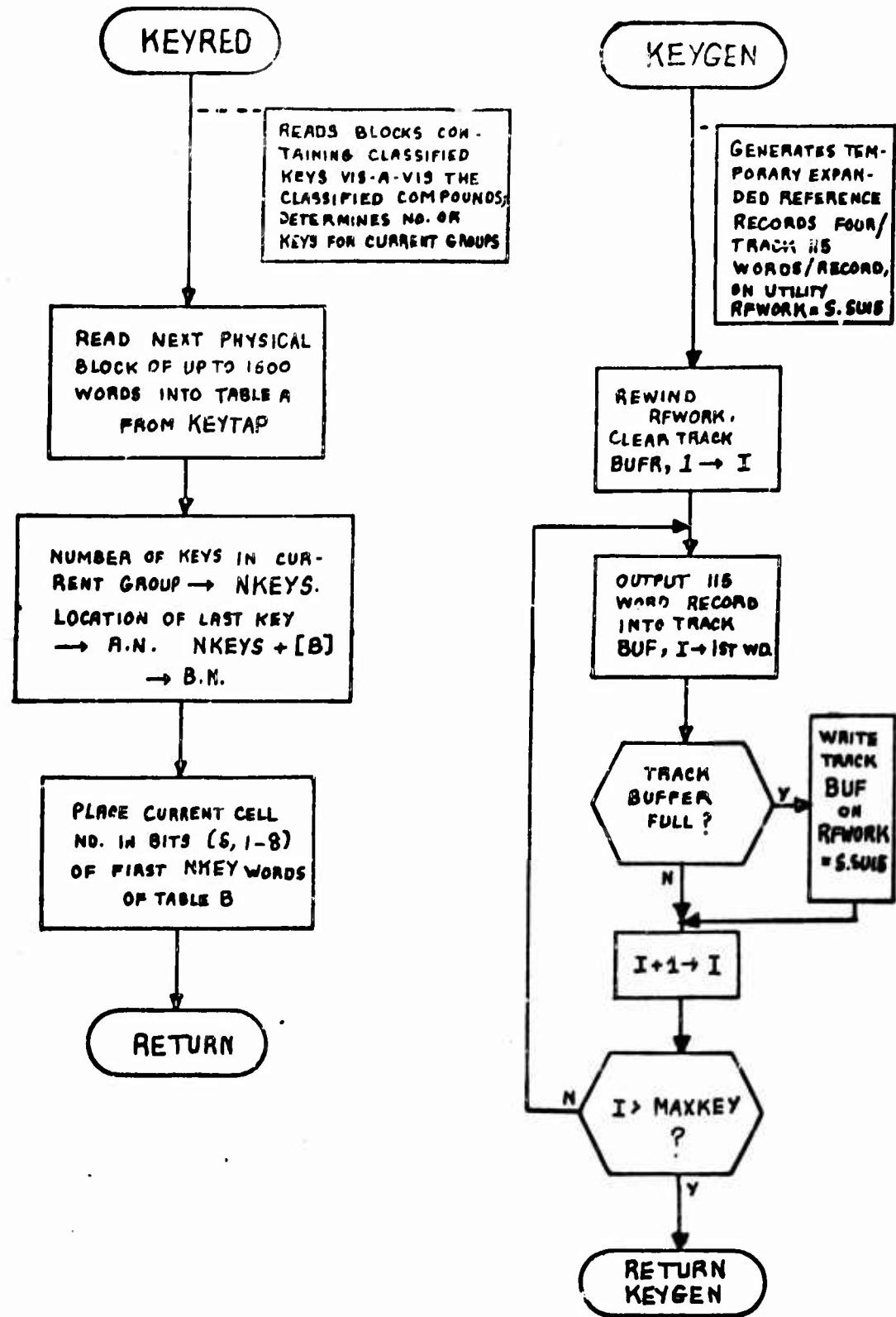
Detail Flow Chart for LINK (Cont)



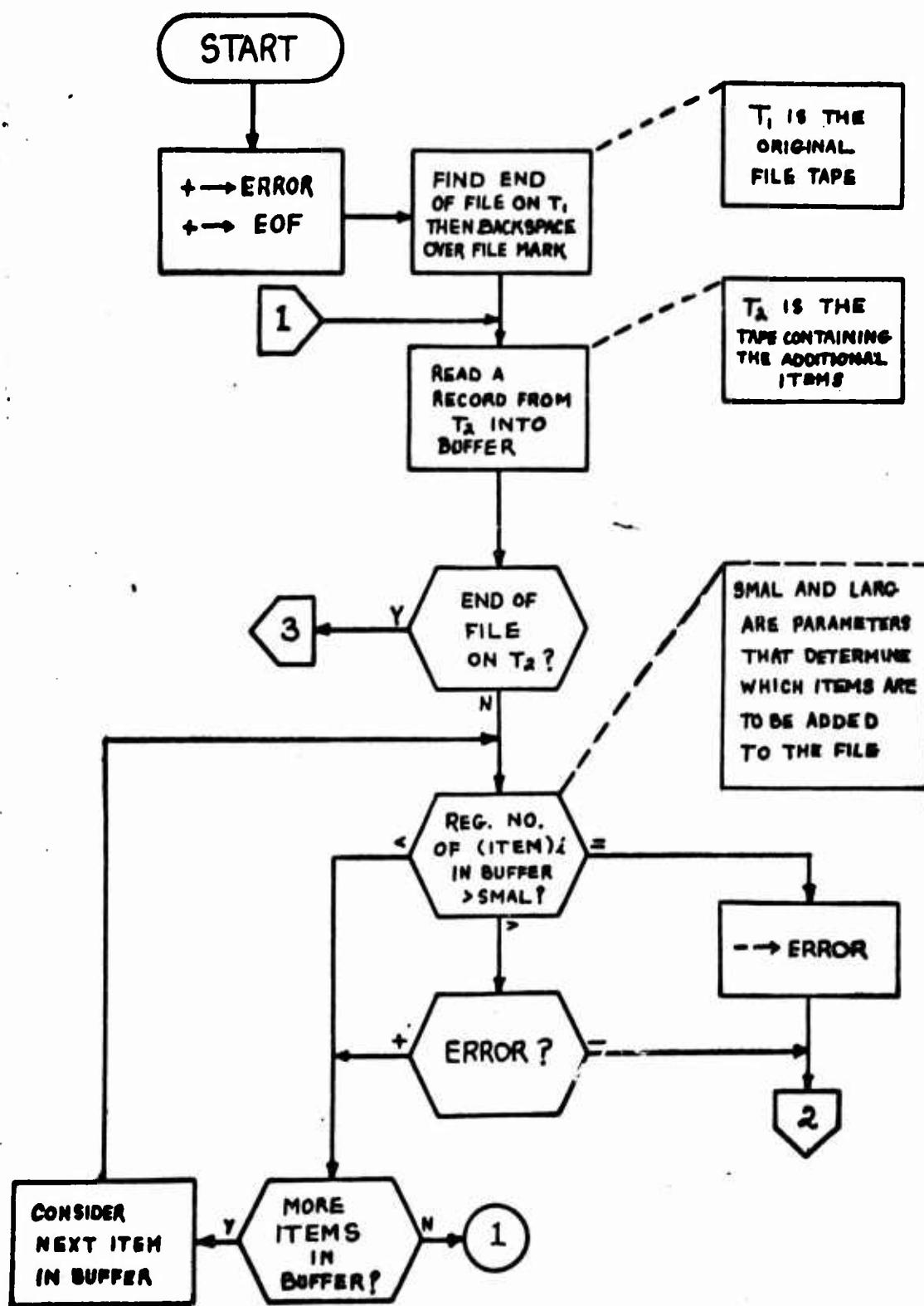
Detail Flow Chart for LINK (Cont)



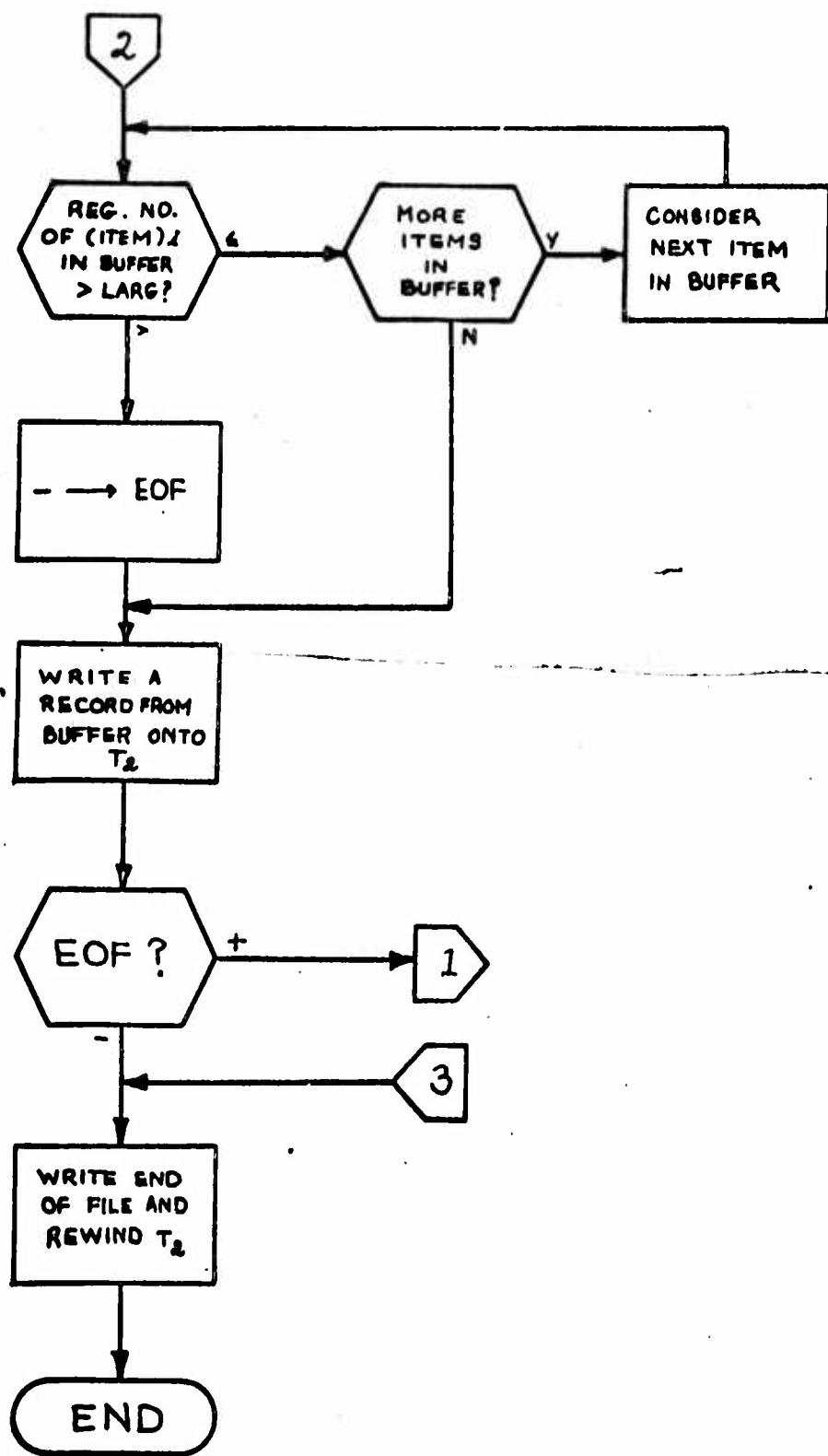
Detail Flow Chart for LINK (Cont)



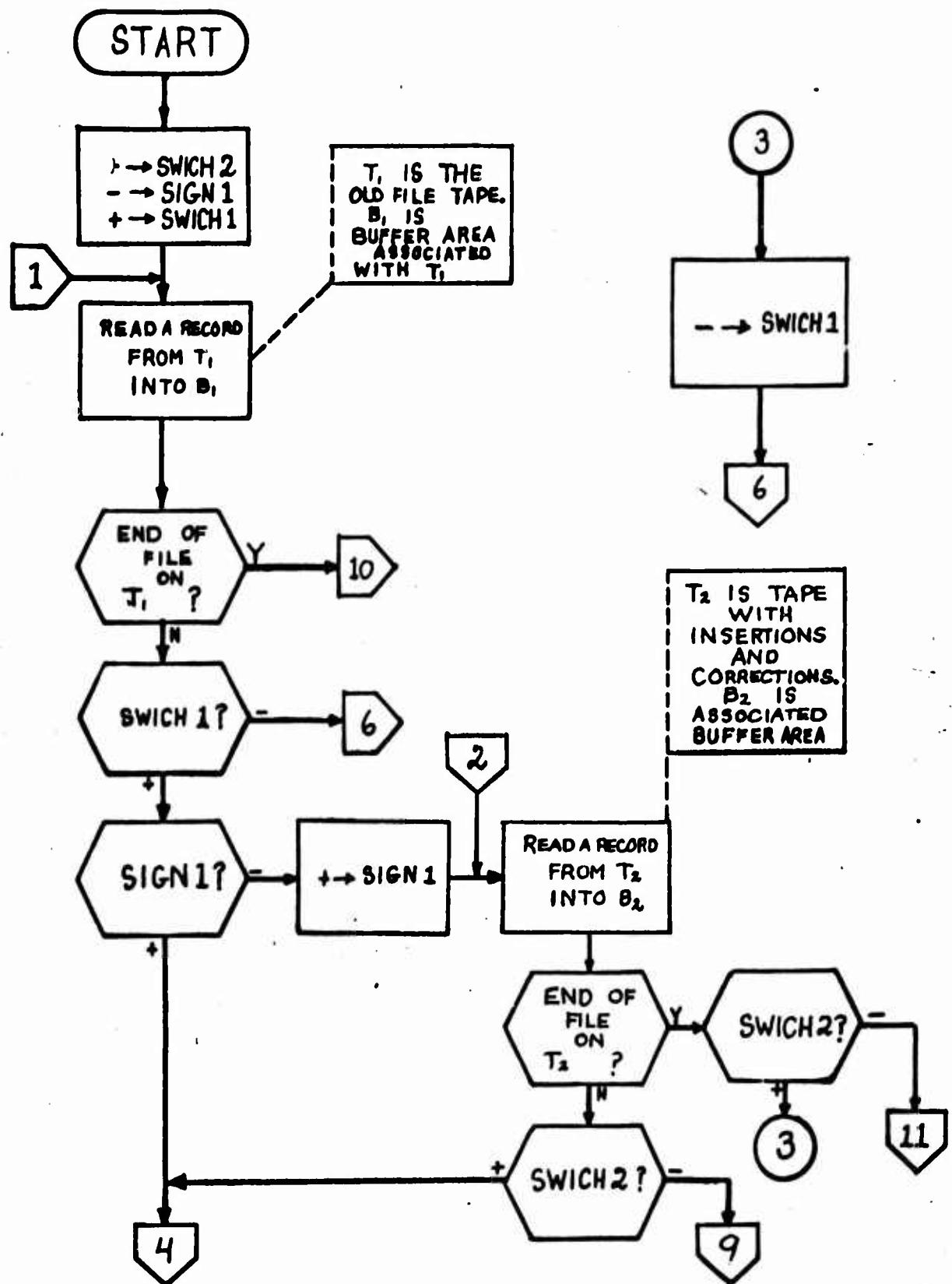
Detail Flow Chart for LINK (Concl)



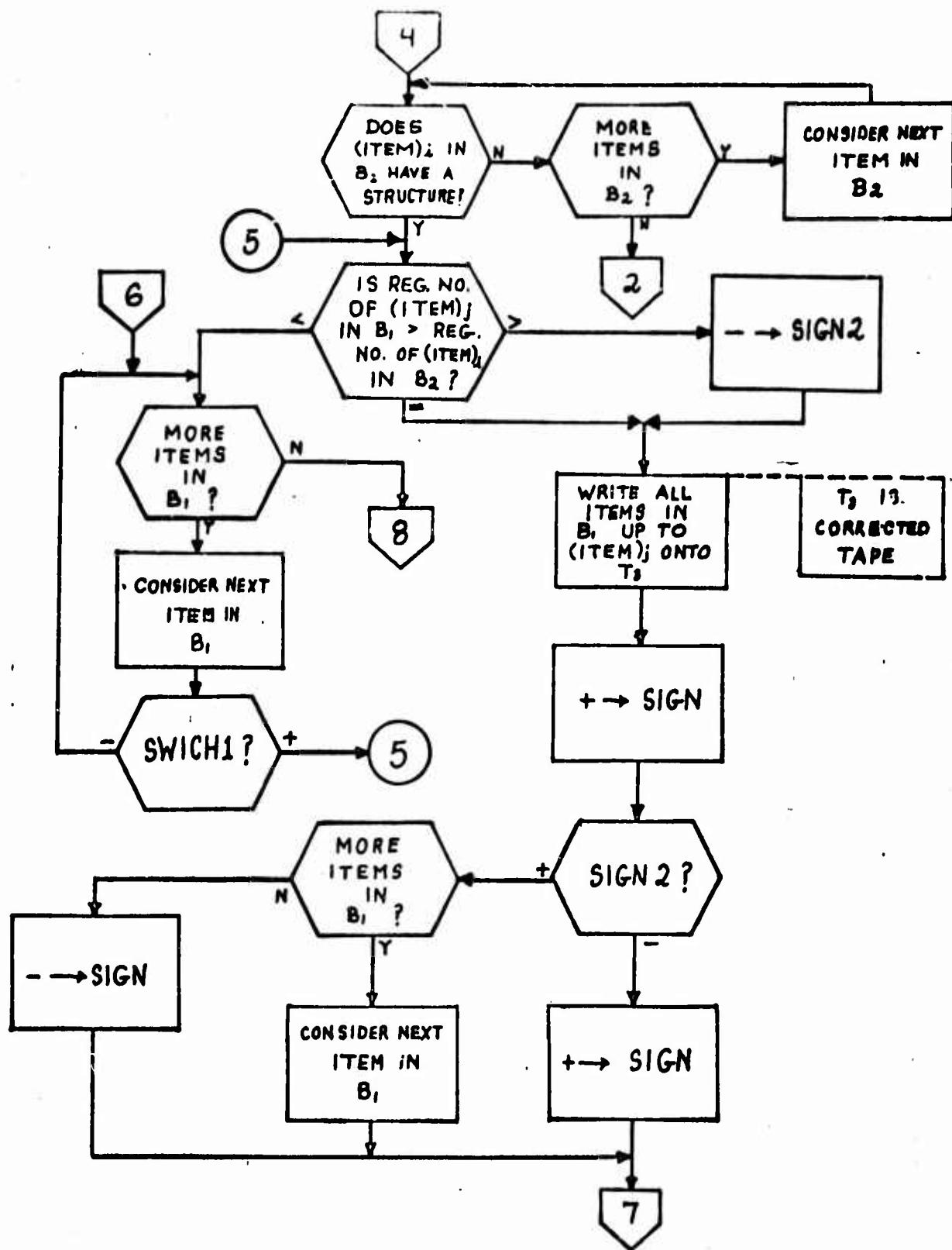
Detail Flow Chart for MERGE (Cont)



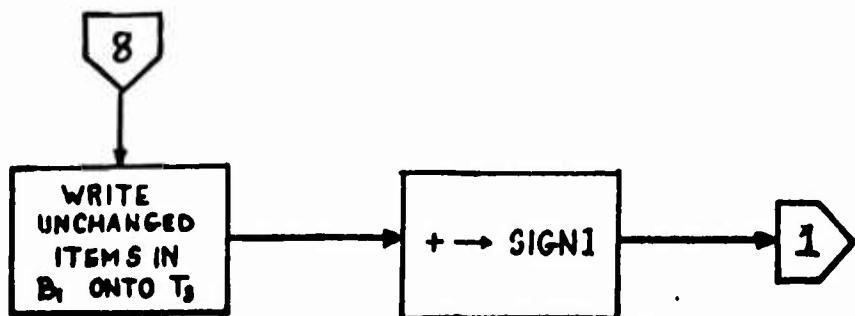
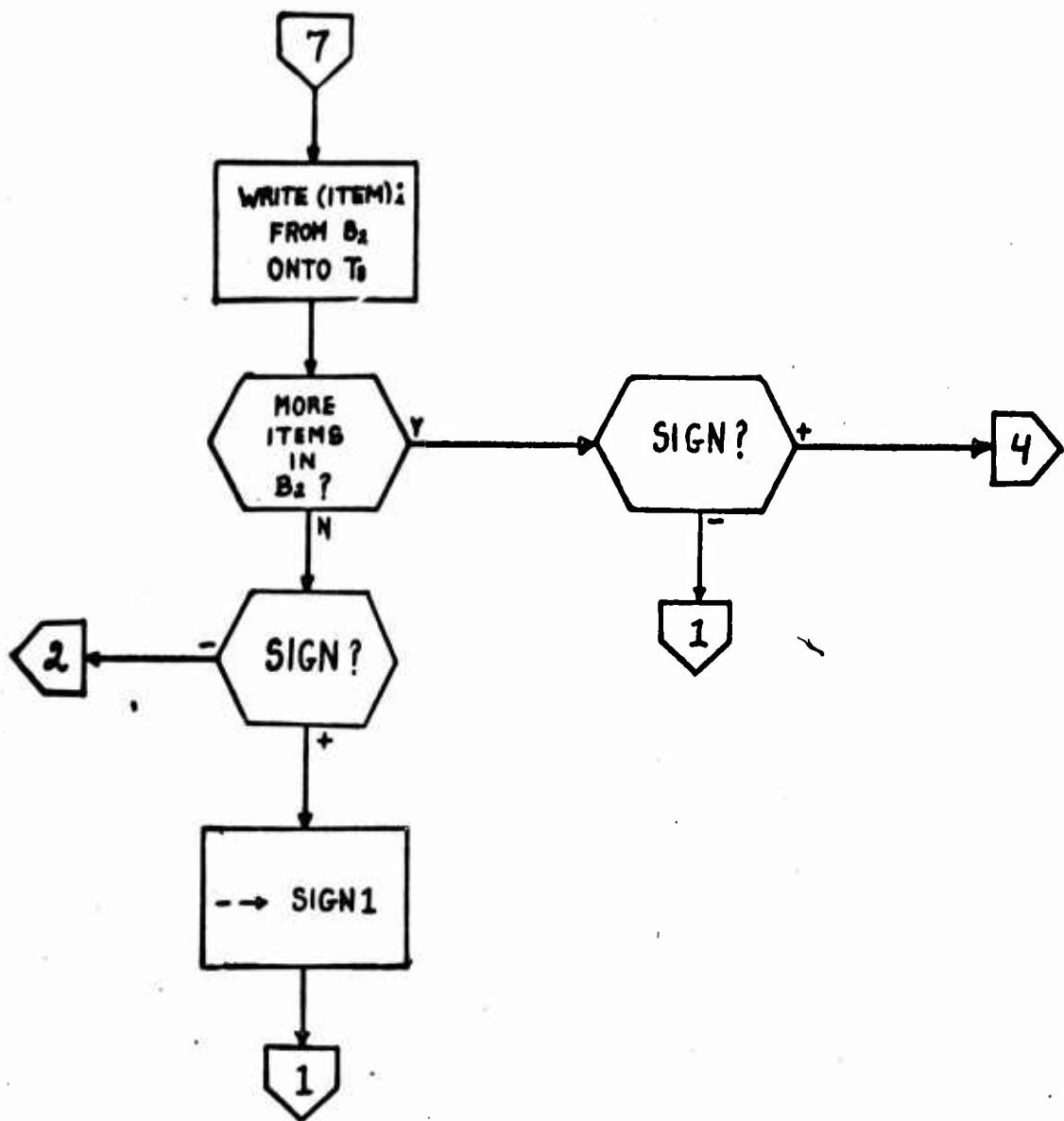
Detail Flow Chart for MERGE (Concl)



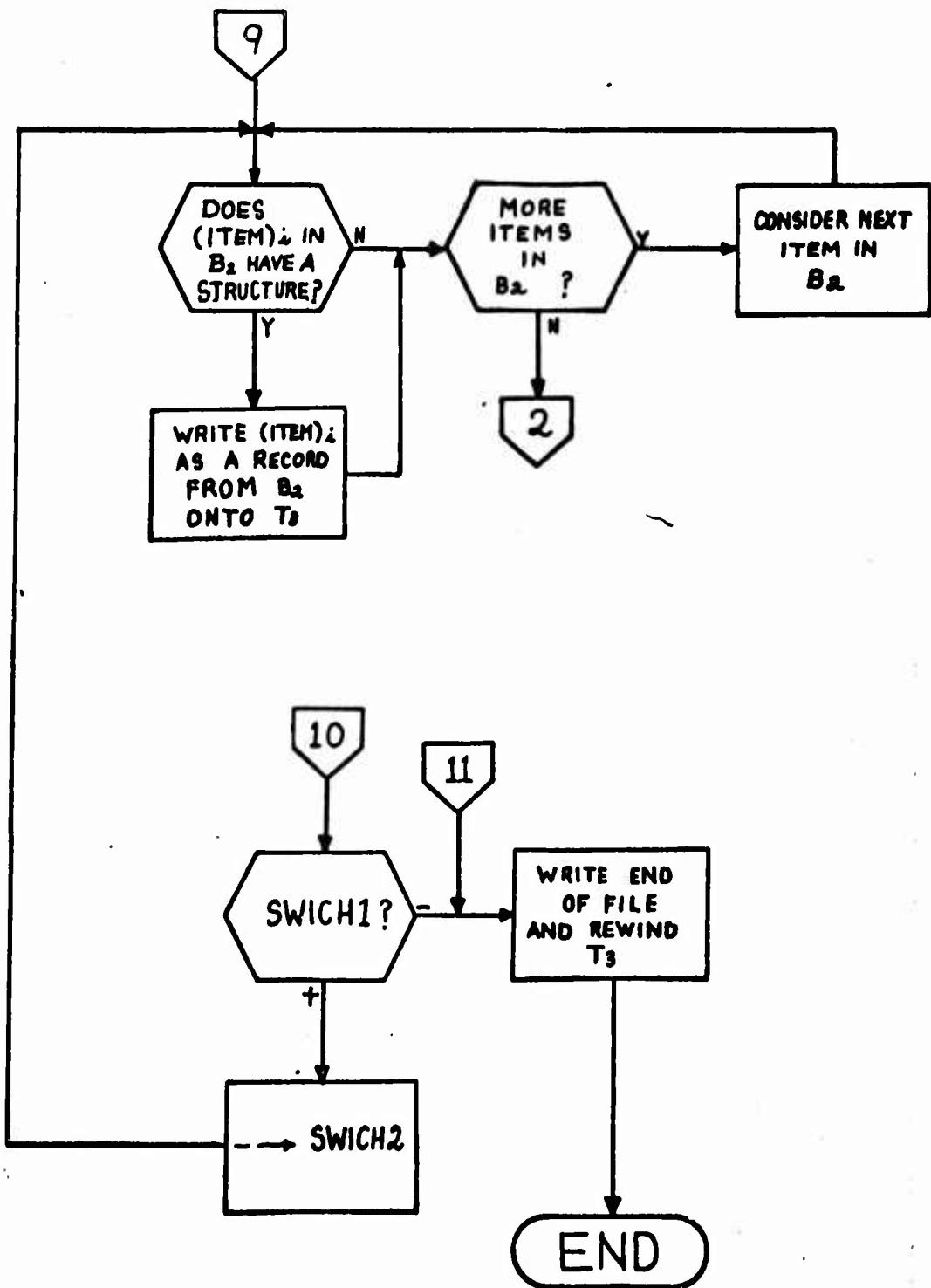
Detail Flow Chart for FIXUP (Cont)



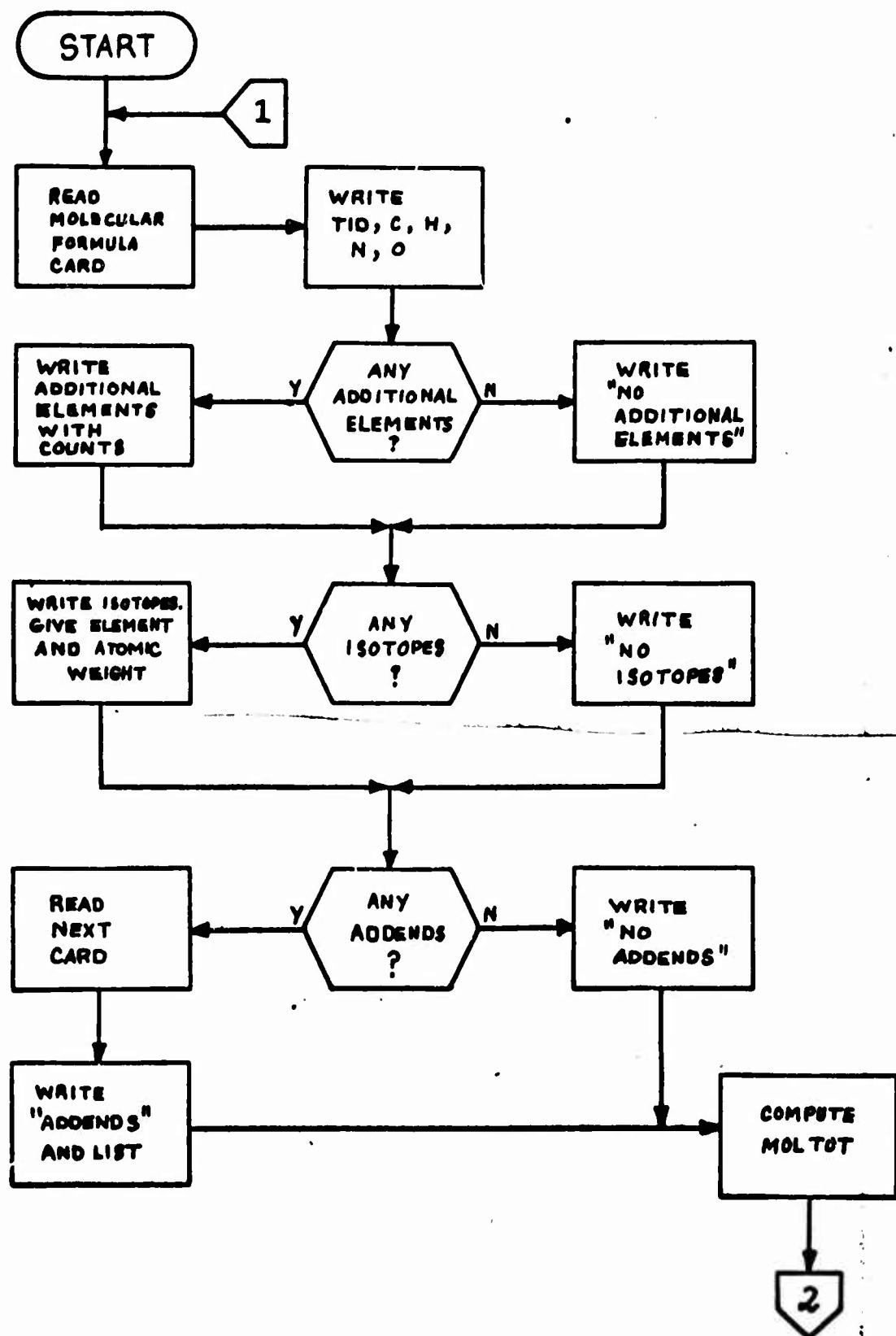
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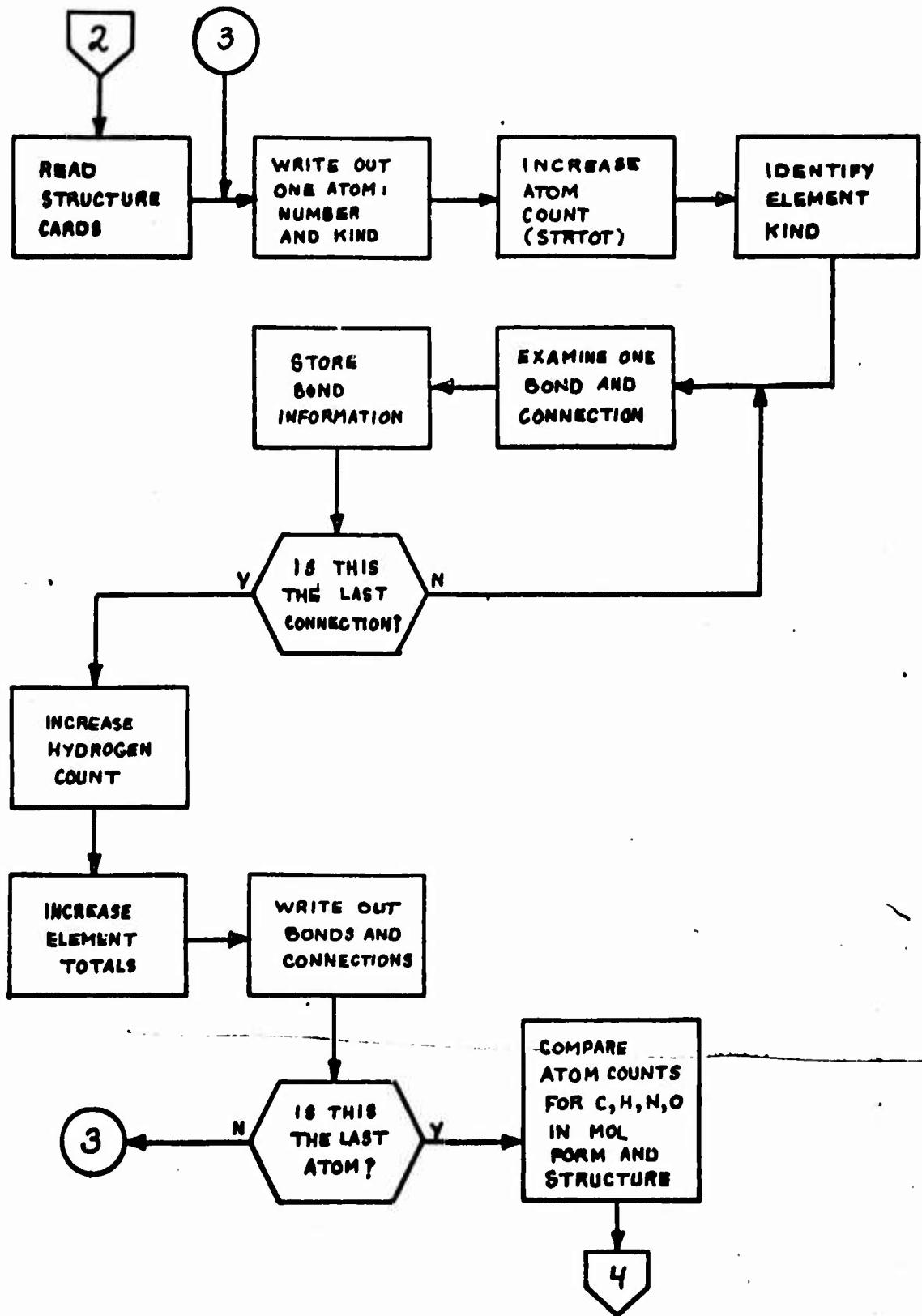
Detail Flow Chart for FIXUP (Cont)



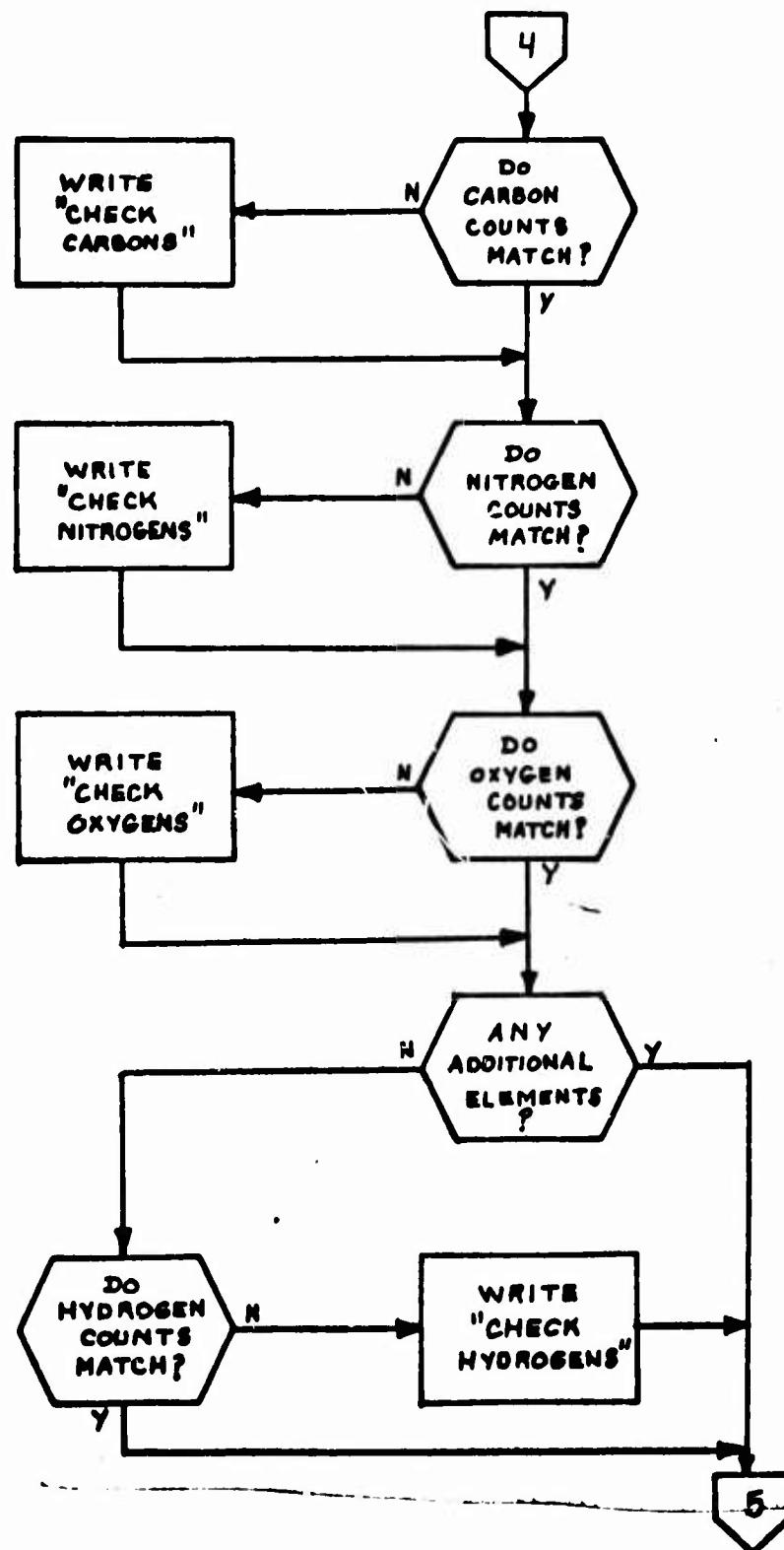
Detail Flow Chart for FIXUP (Concl)



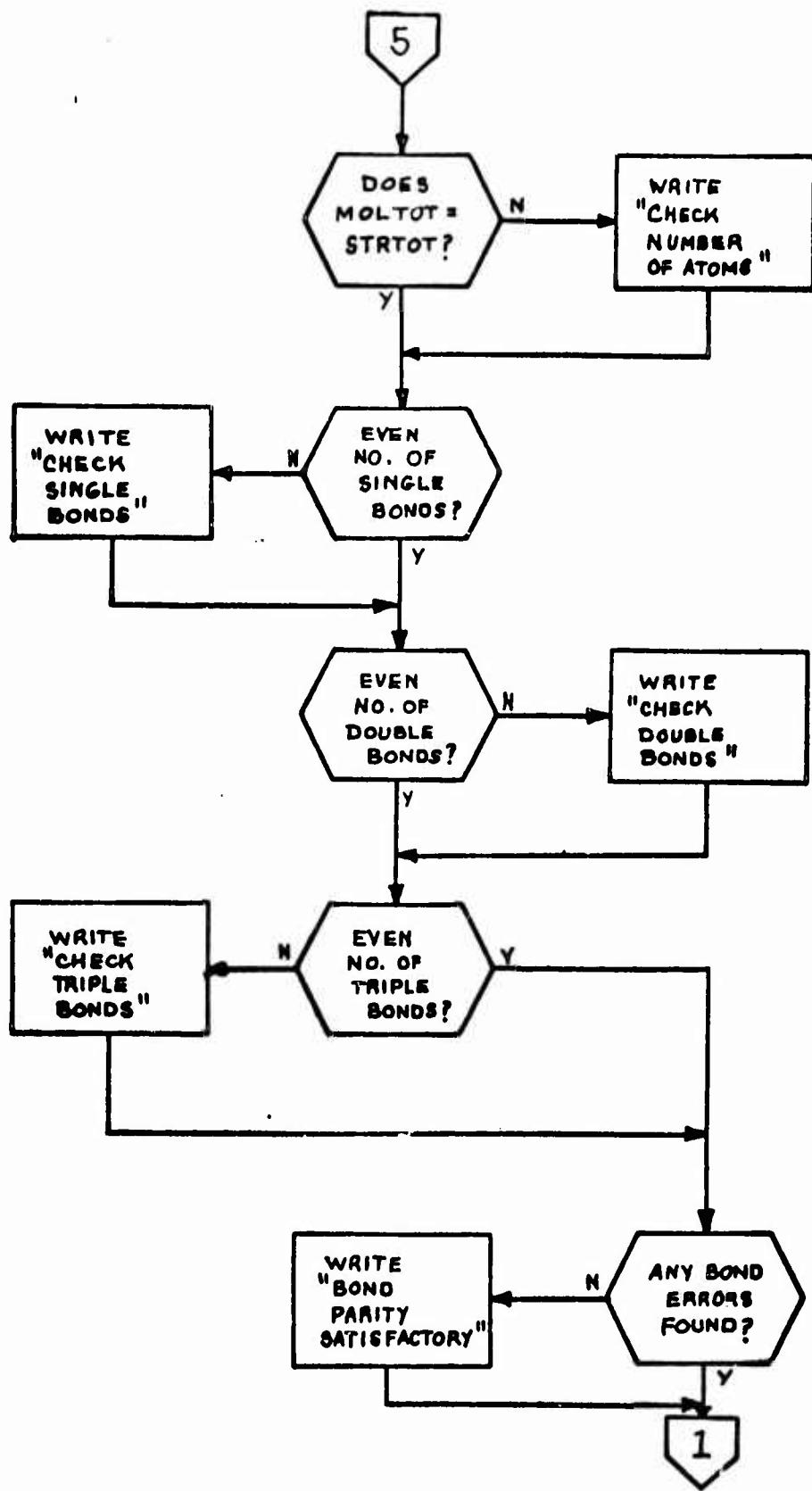
Detail Flow Chart for CRDVER (Cont)



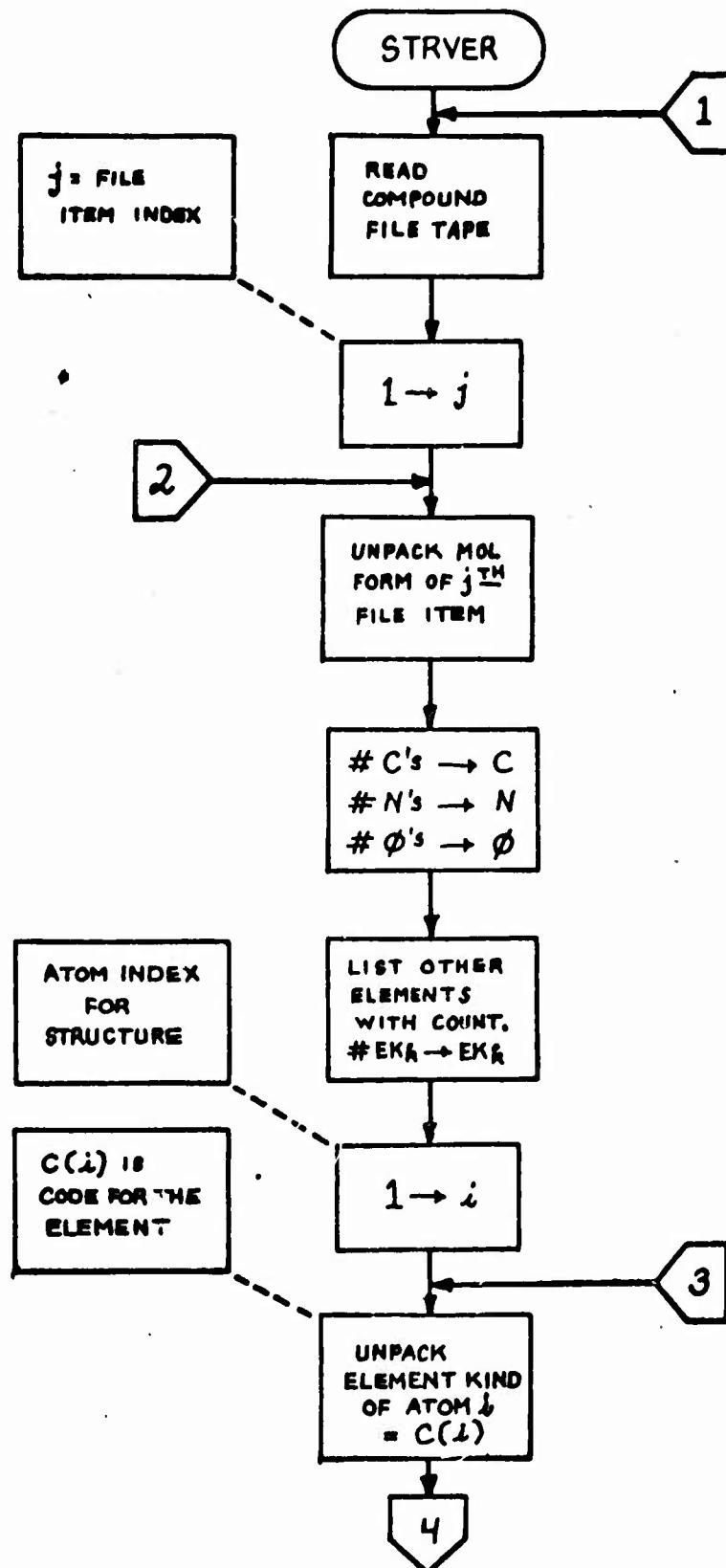
Detail Flow Chart for CRDVER (Cont)



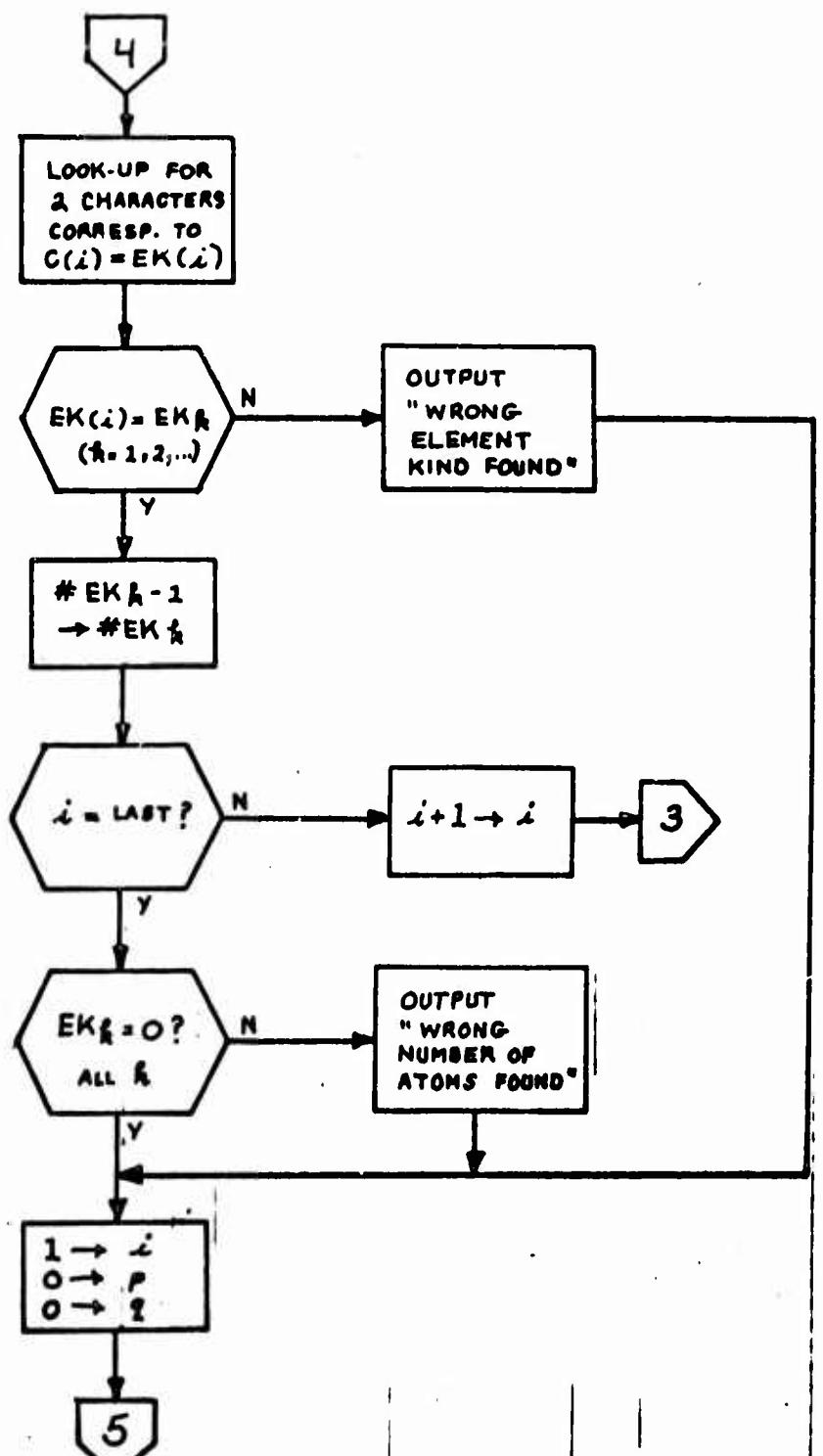
Detail Flow Chart for CRDVER (Cont)



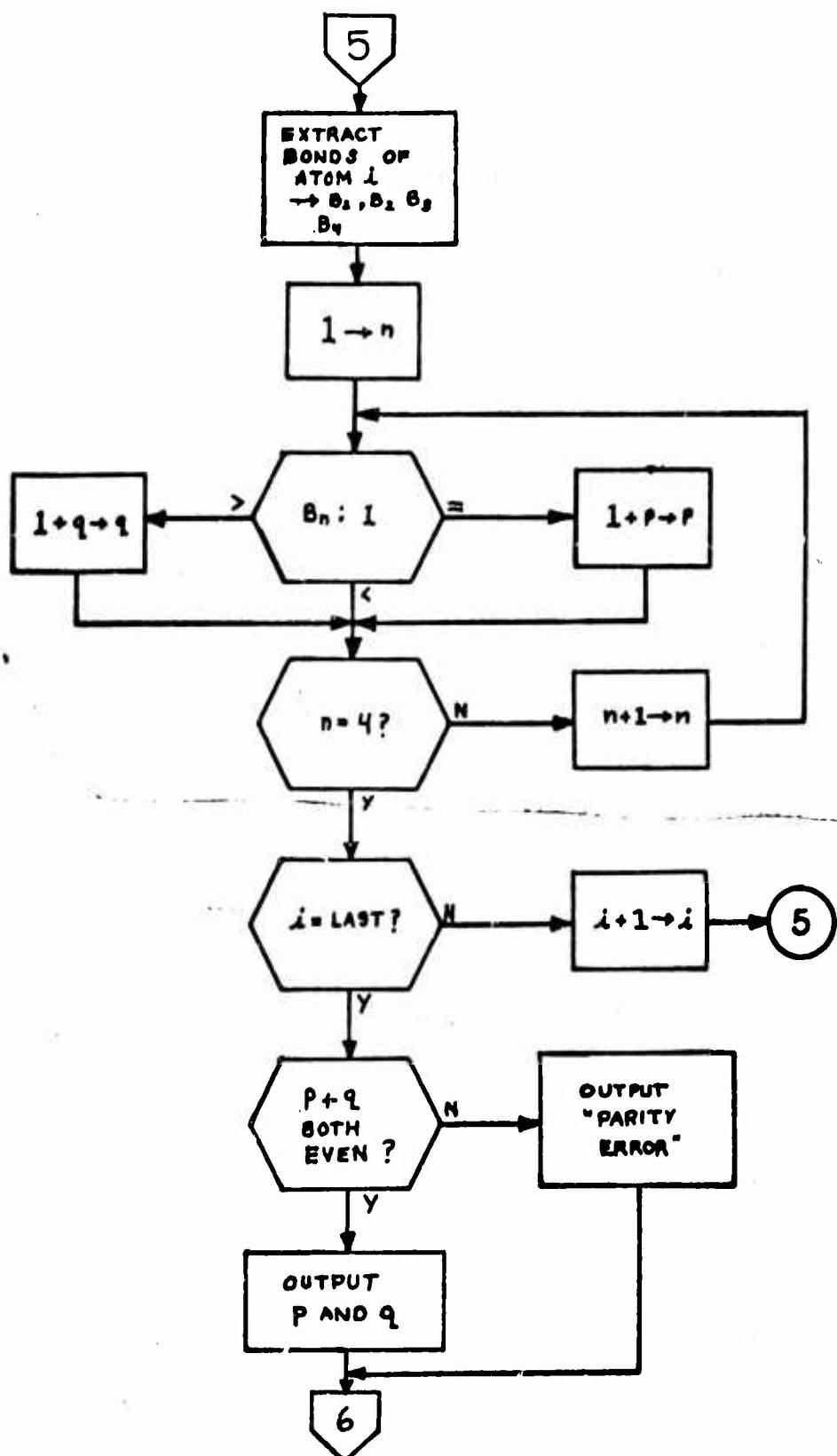
Detail Flow Chart for CRDVER (Concl)



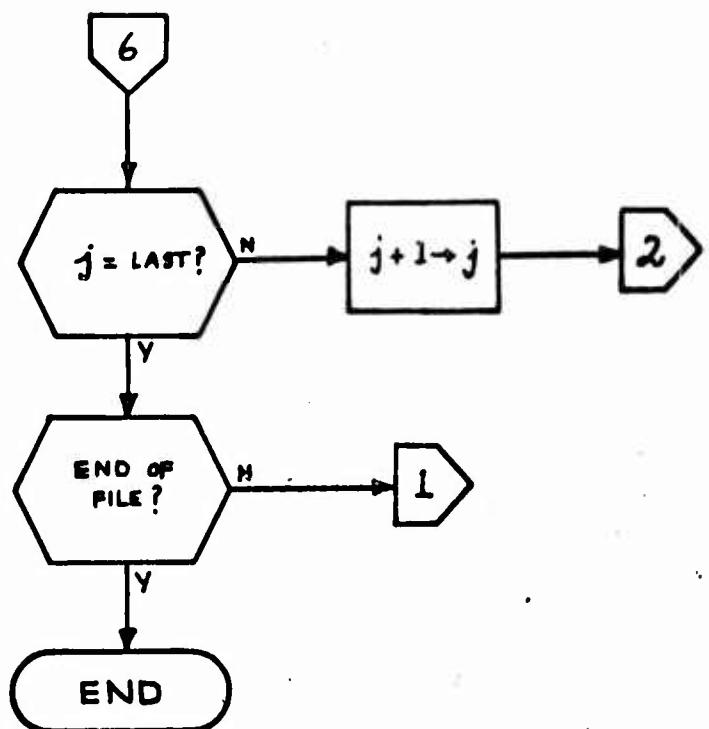
Detail Flow Chart for STRVER (Cont)



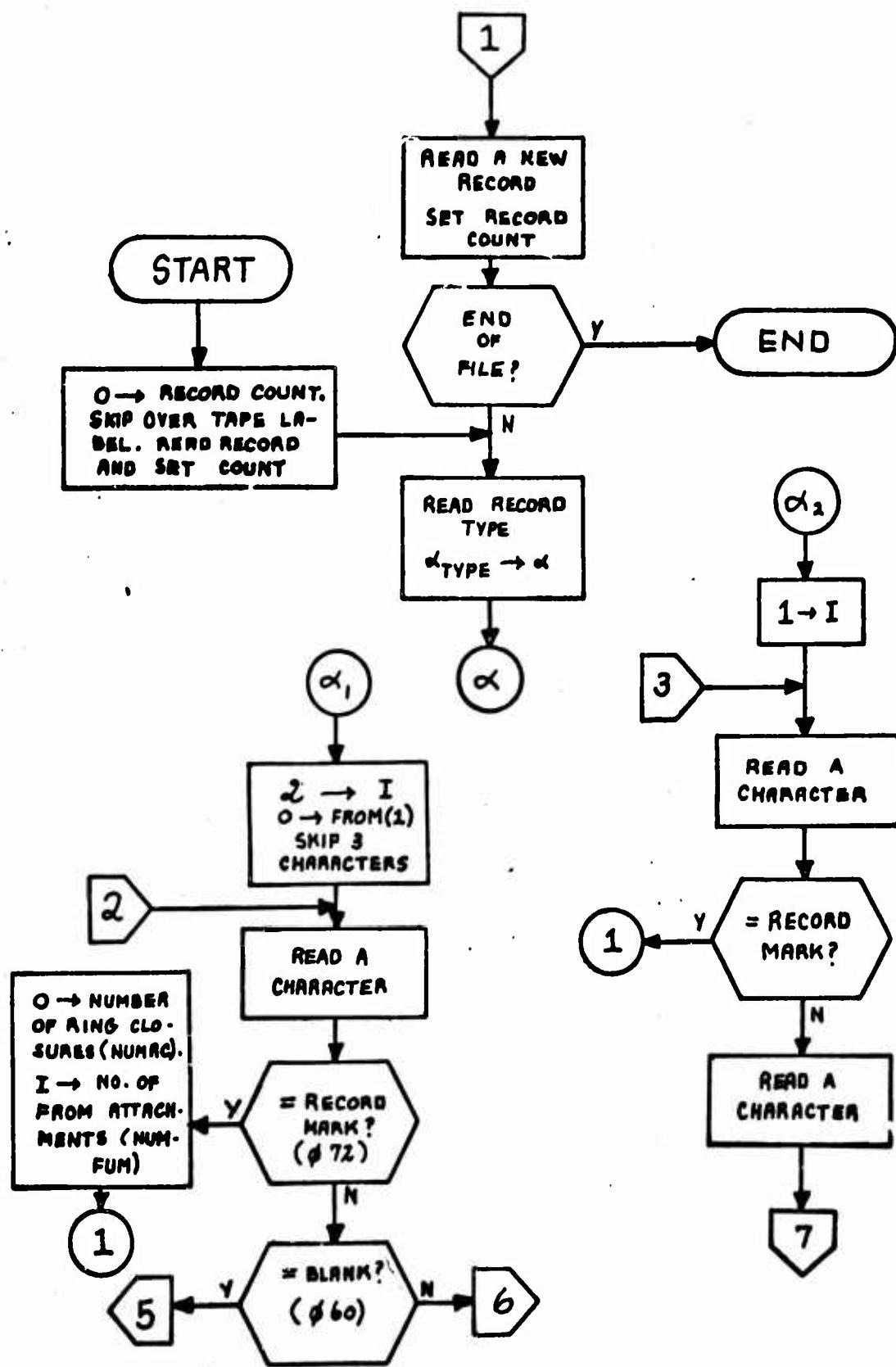
Detail Flow Chart for STRVER (Cont)

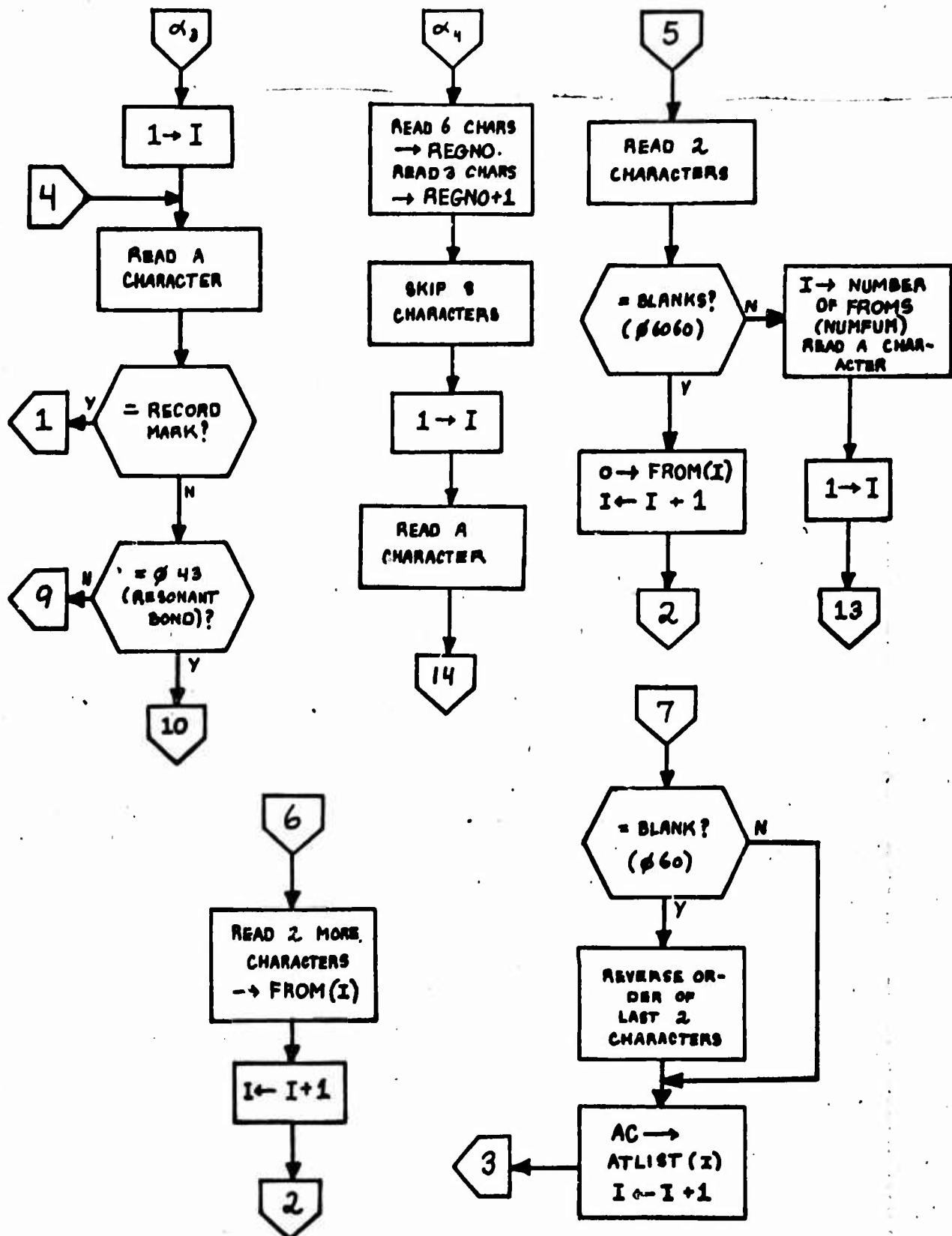


Detail Flow Chart for STRVER (Cont)

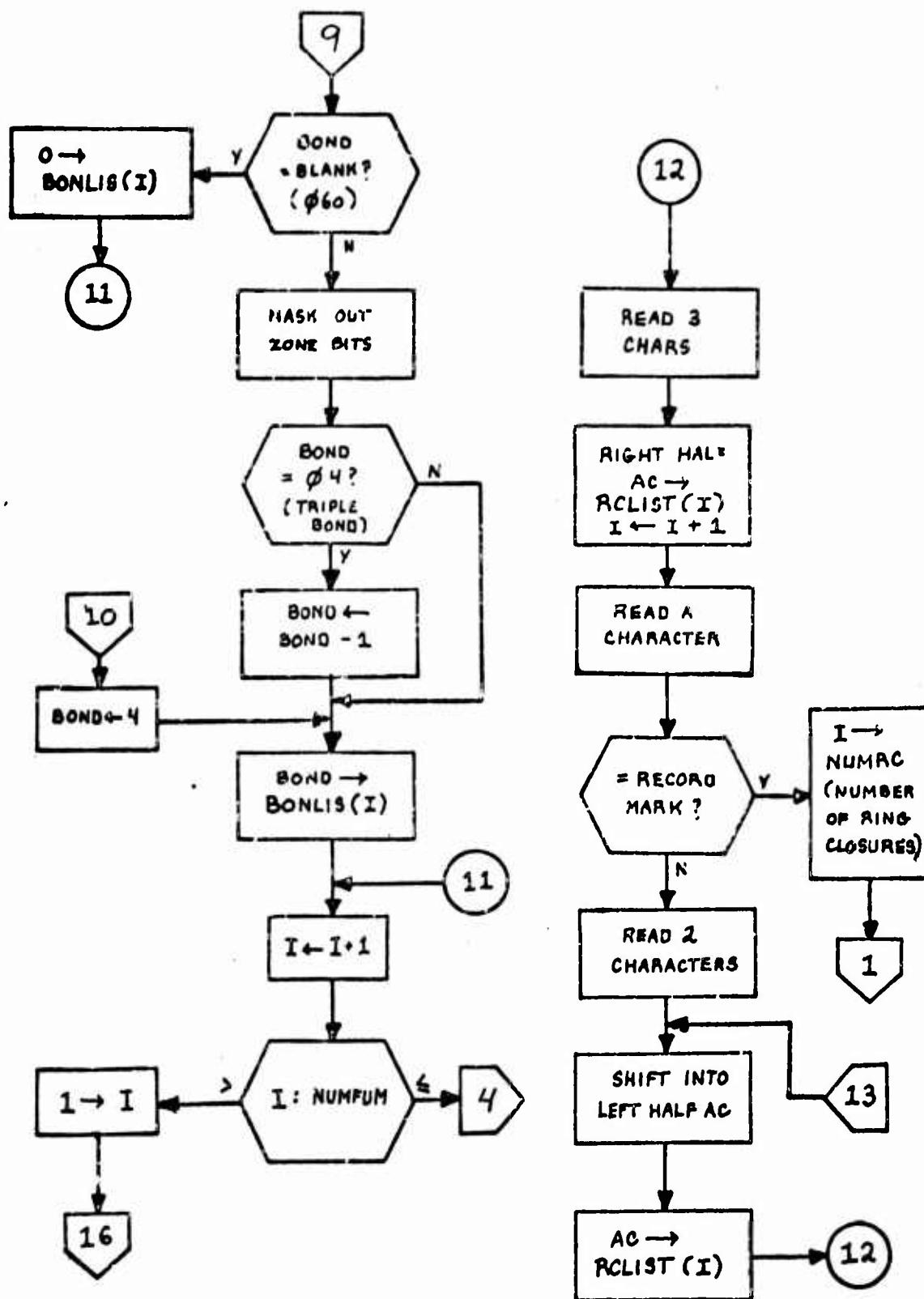


Detail Flow Chart for STRVER (Concl)

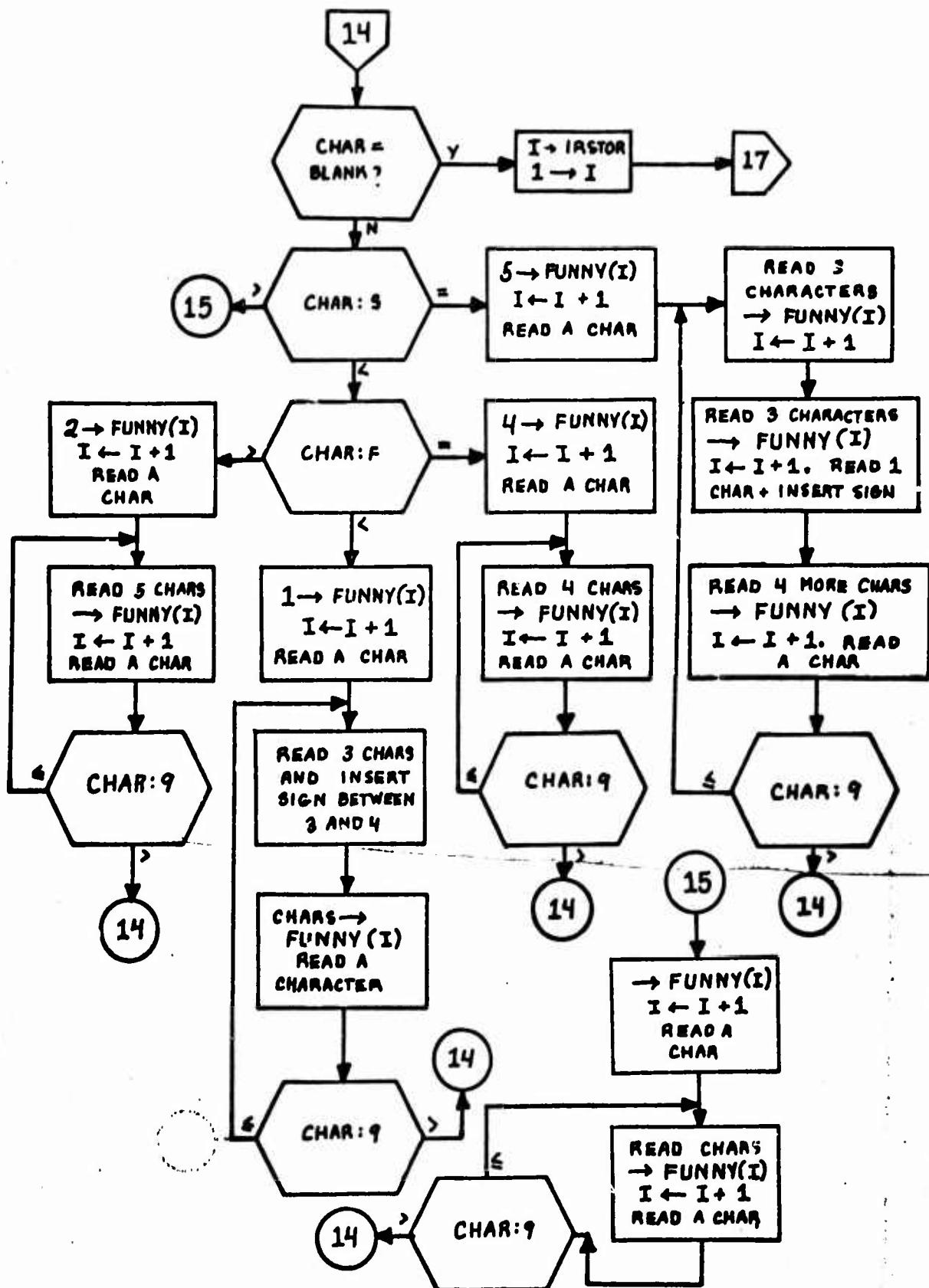




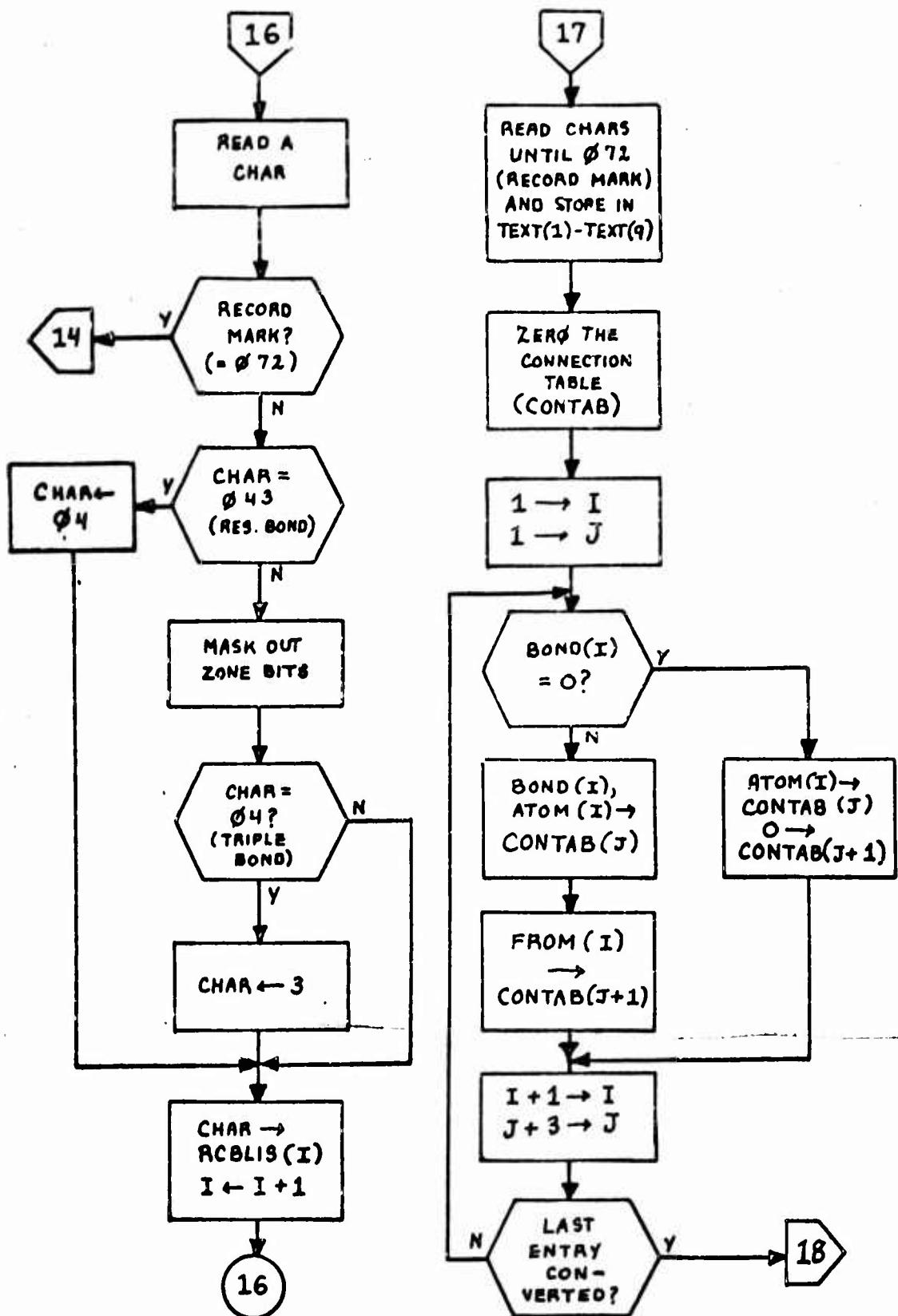
Detail Flow Chart for CASFMT (Cont)



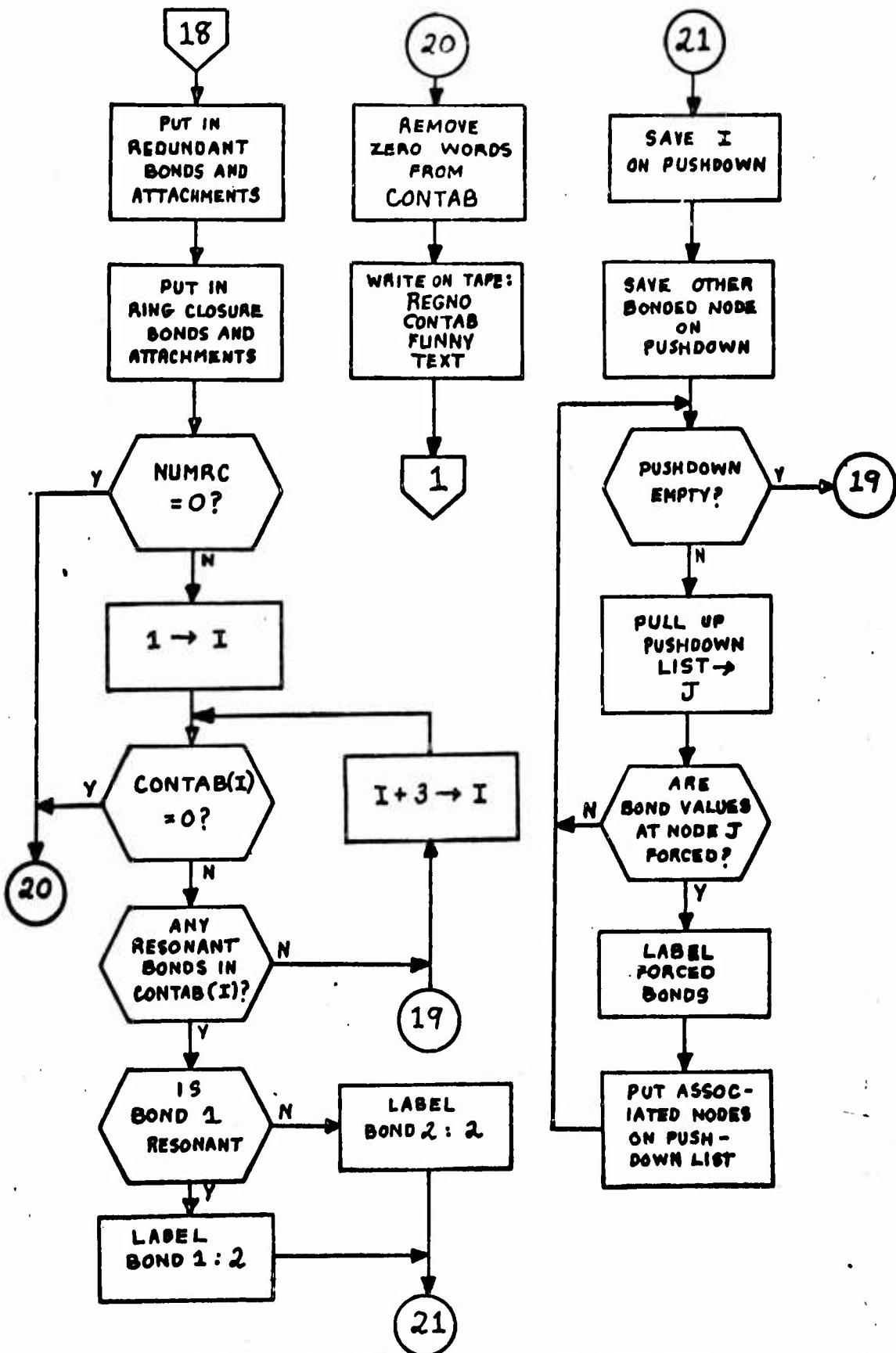
Detail Flow Chart for CASFMT (Cont)



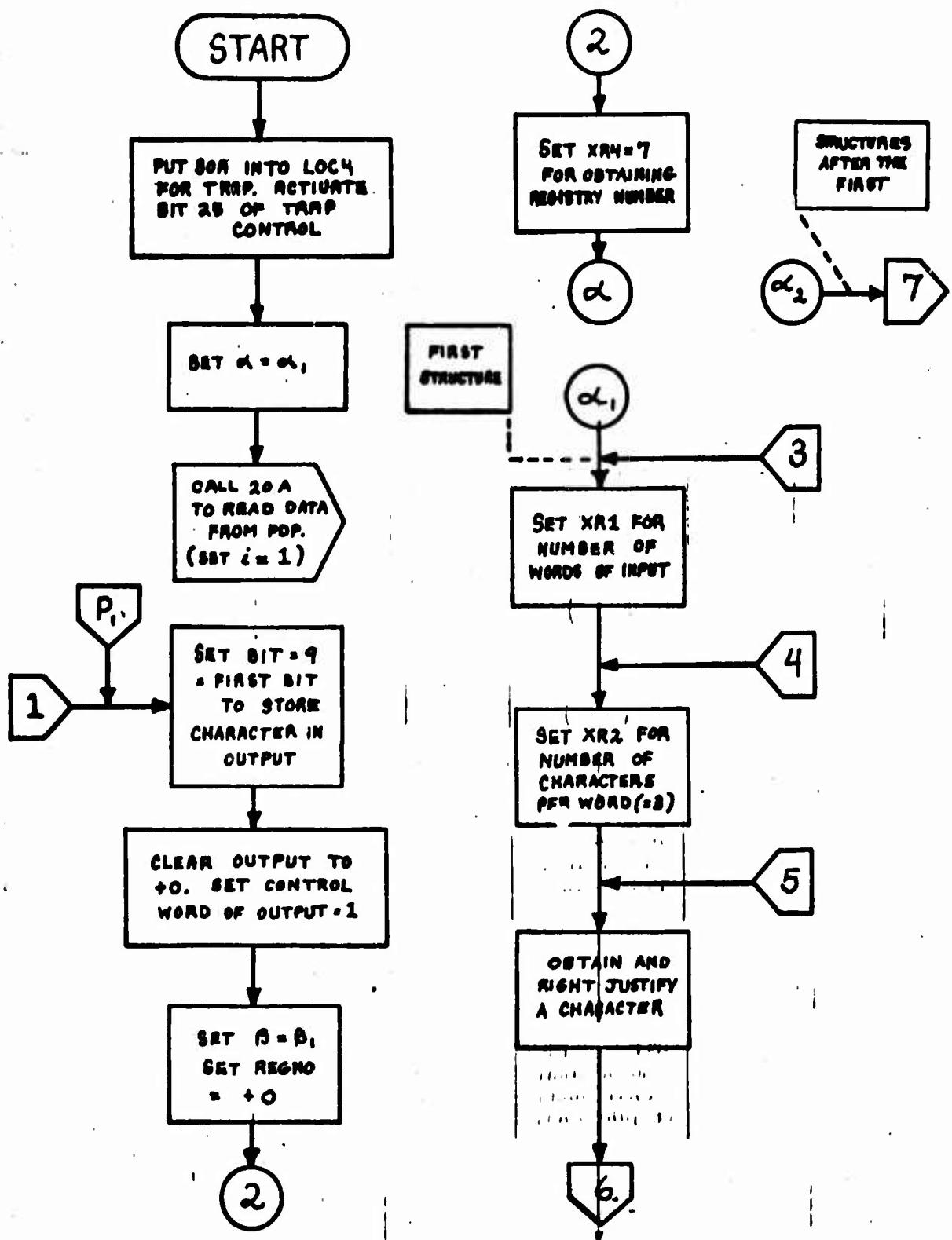
Detail Flow Chart for CASFMT (Cont)



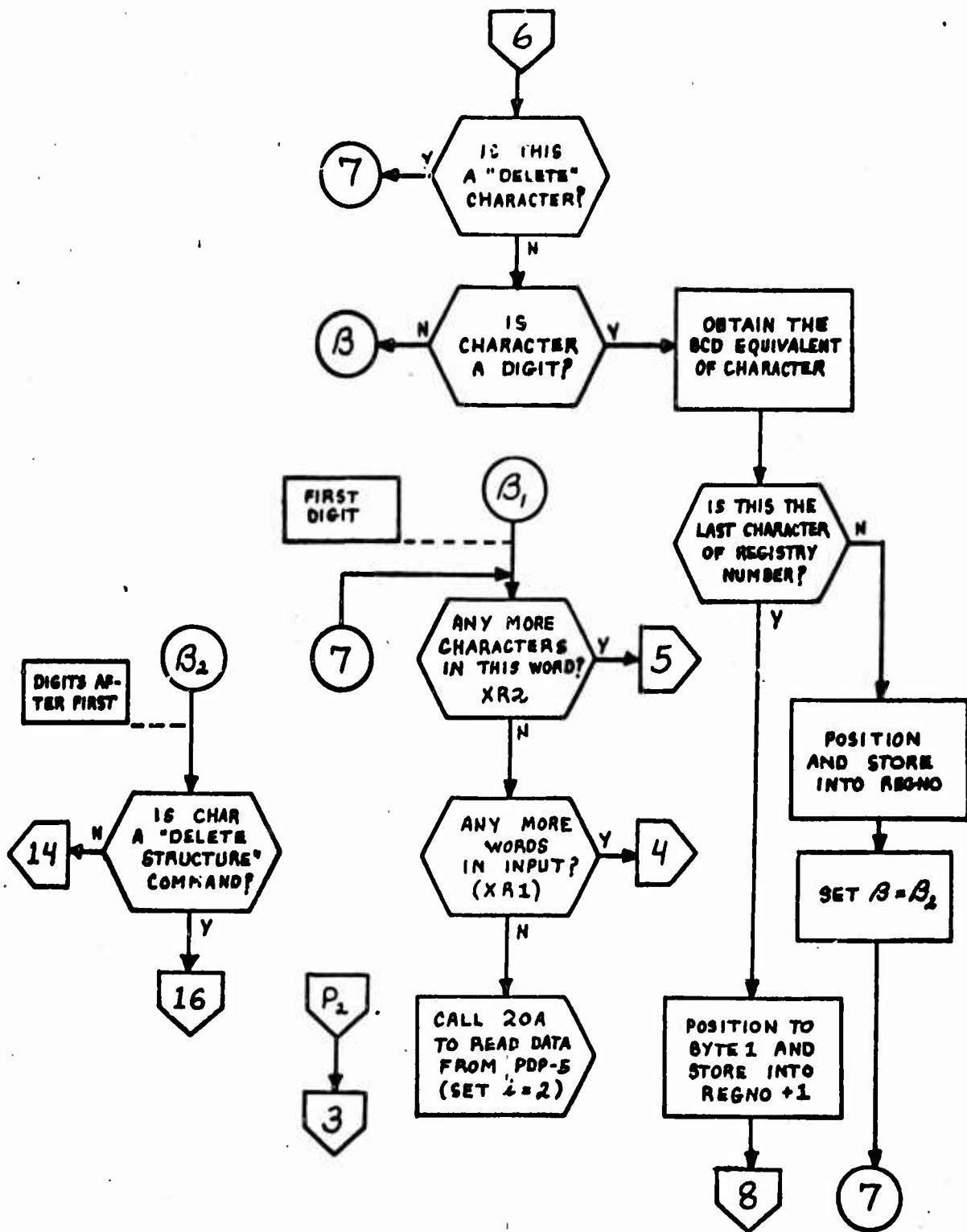
Detail Flow Chart for CASFMT (Cont)



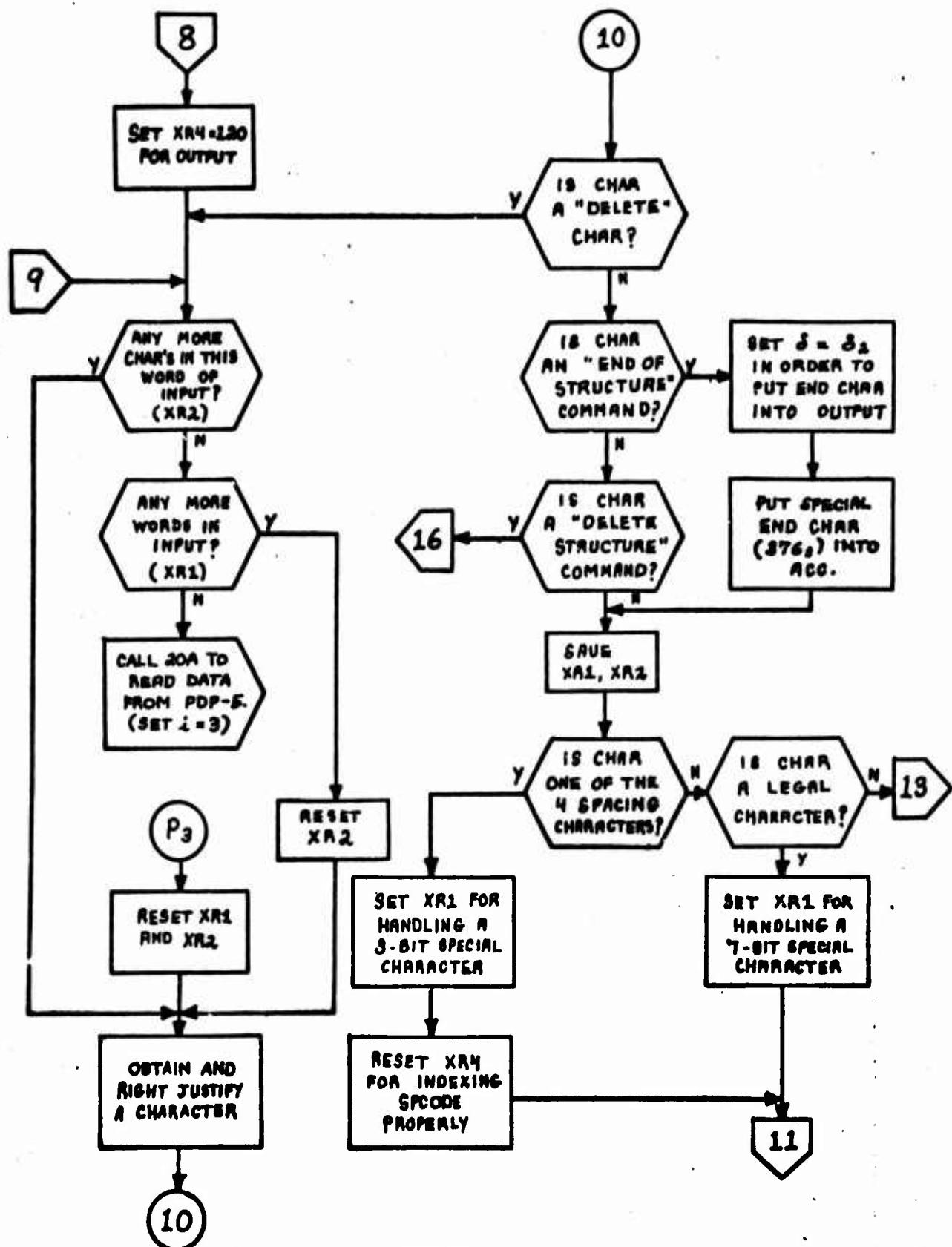
Detail Flow Chart for CASFMT (Concl)



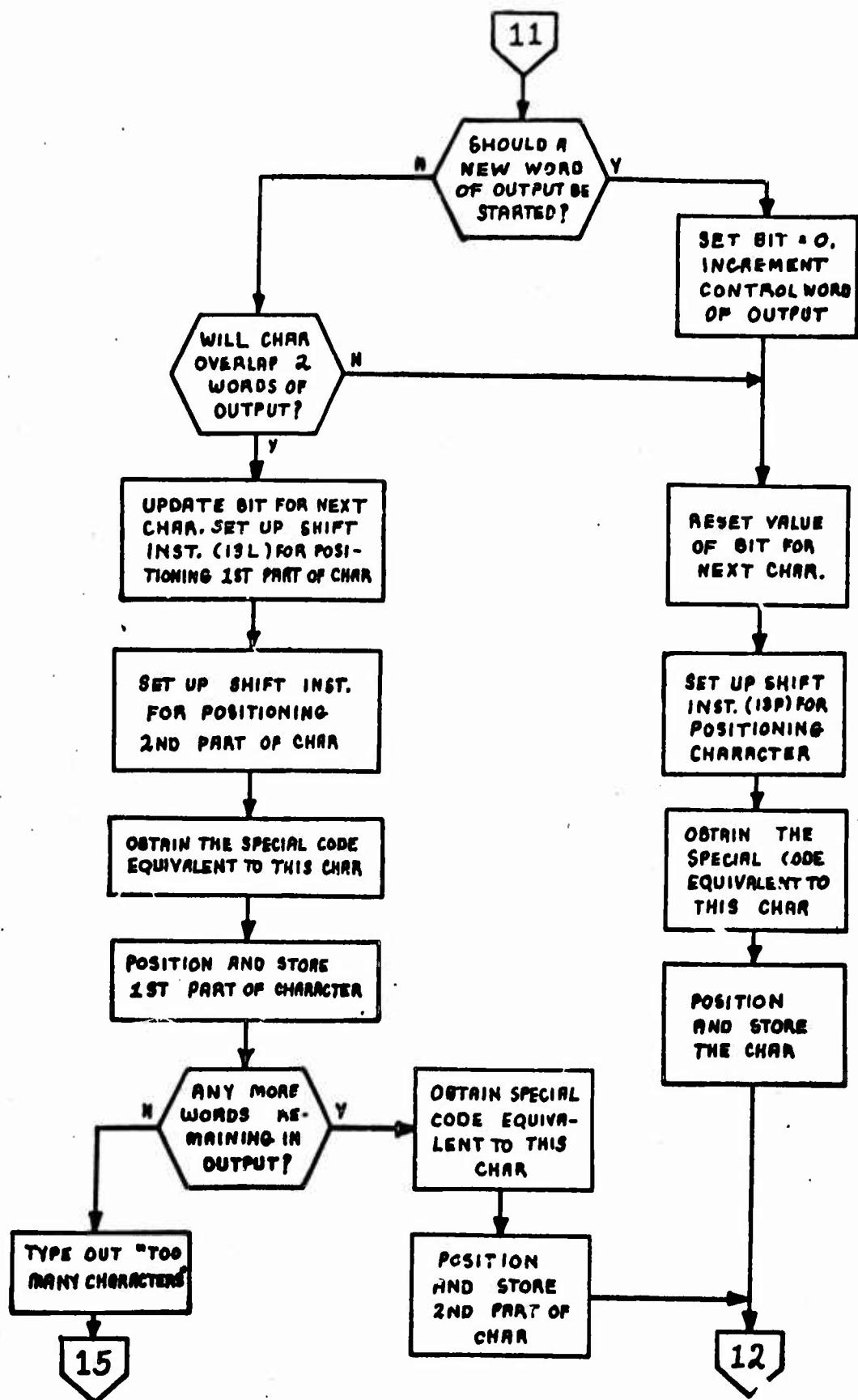
Detail Flow Chart for SELECT (Cont.)



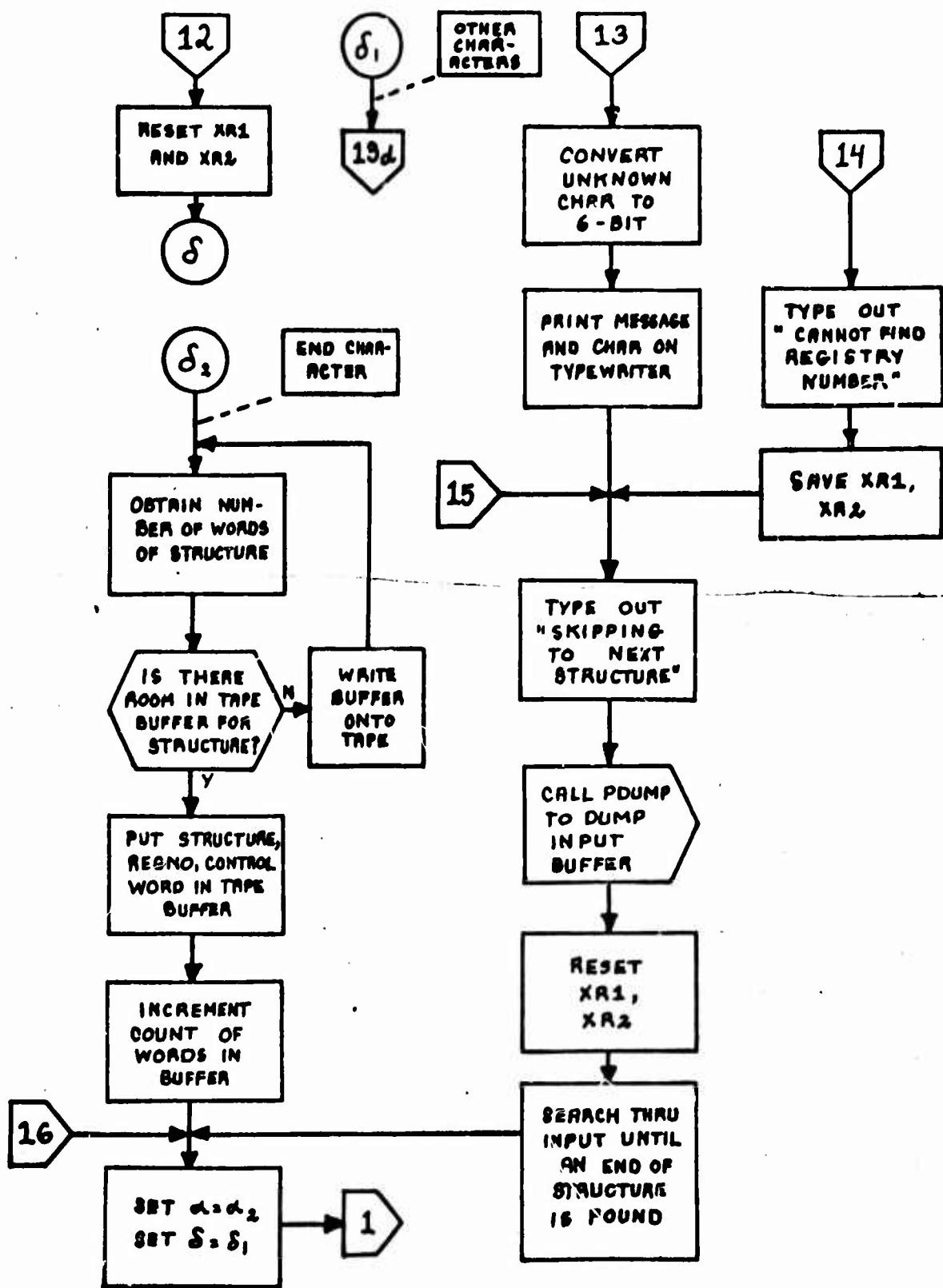
Detail Flow Chart for SELECT (Cont)



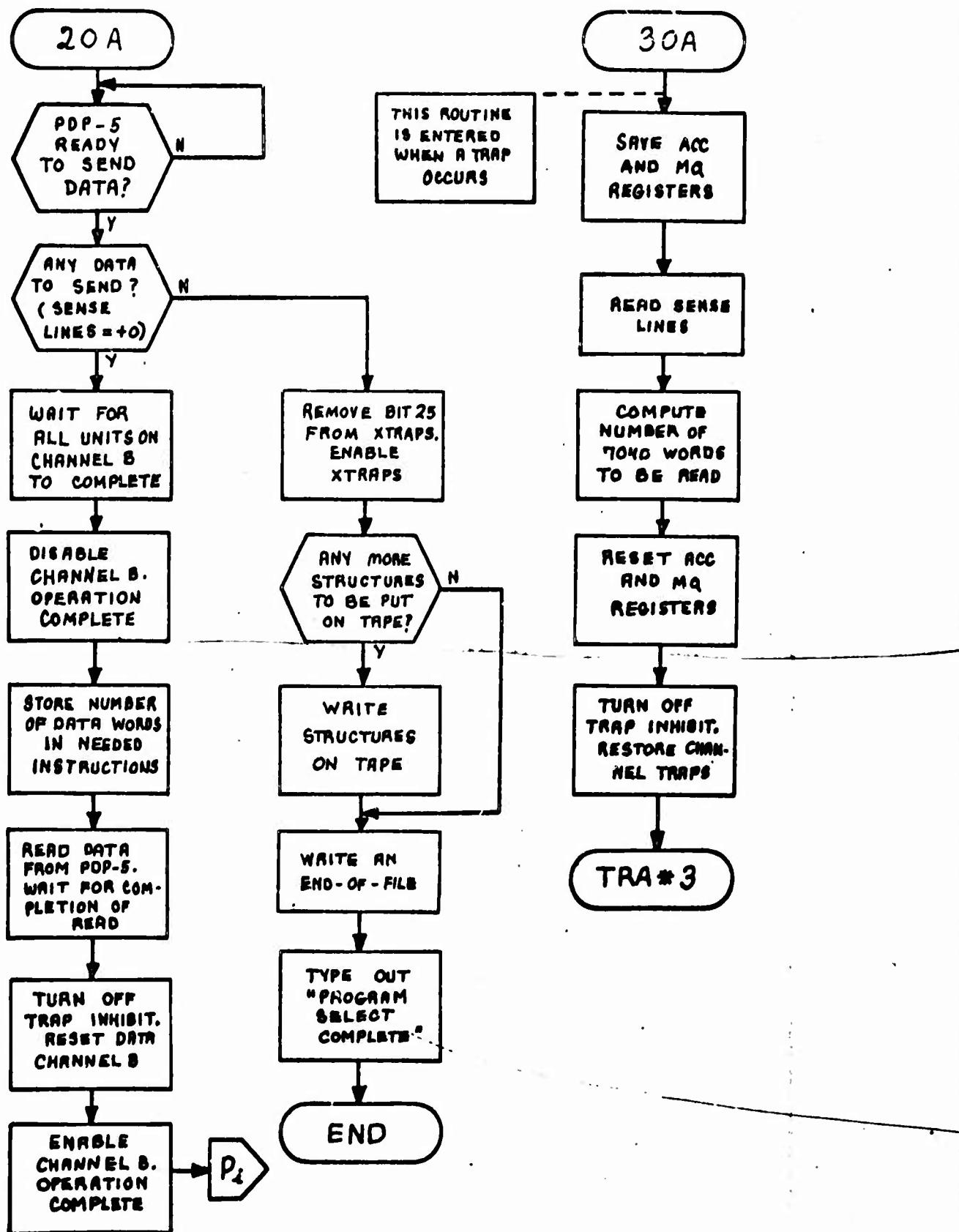
Detail Flow Chart for SELECT (Cont)



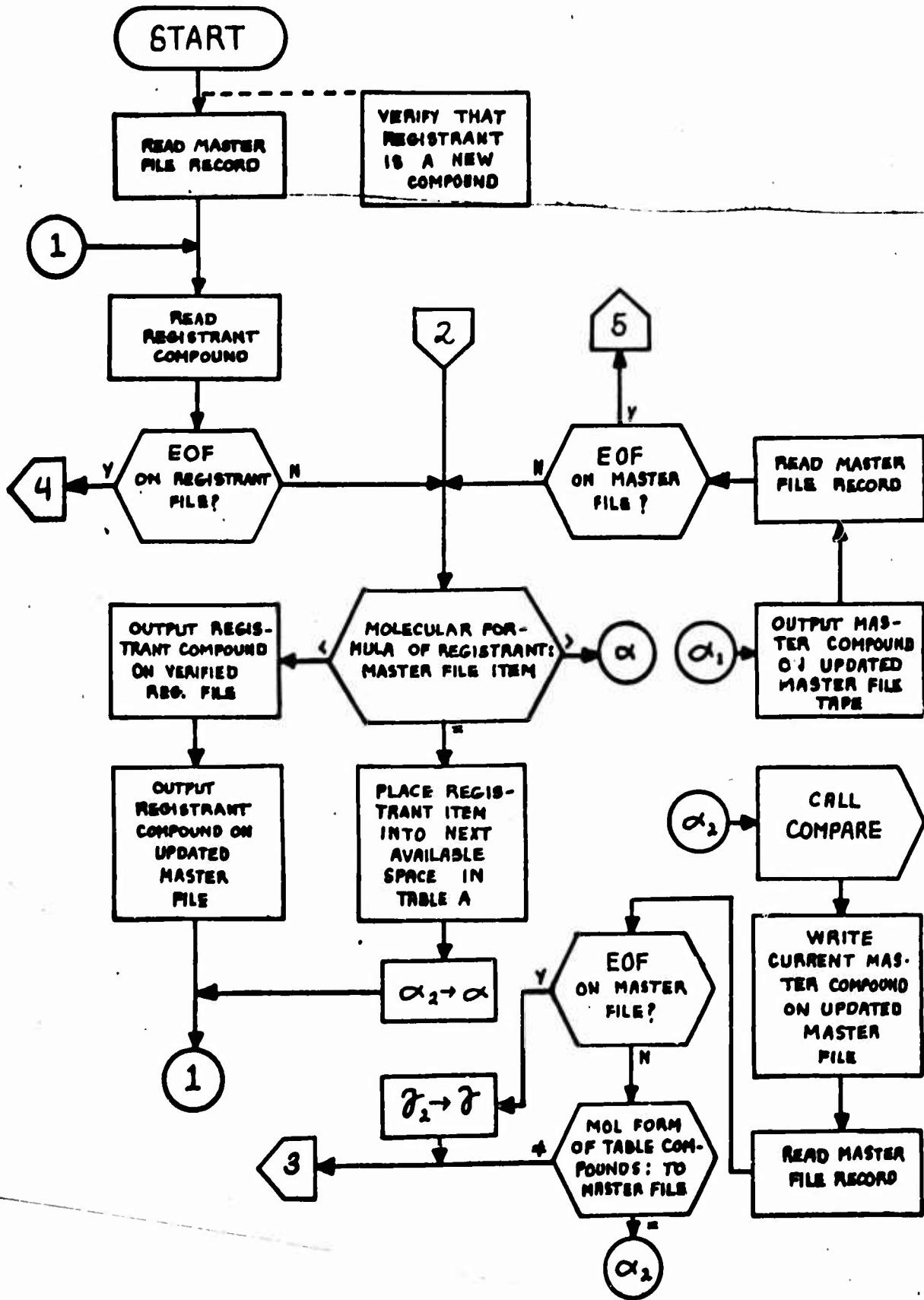
Detail Flow Chart for SELECT (Cont)

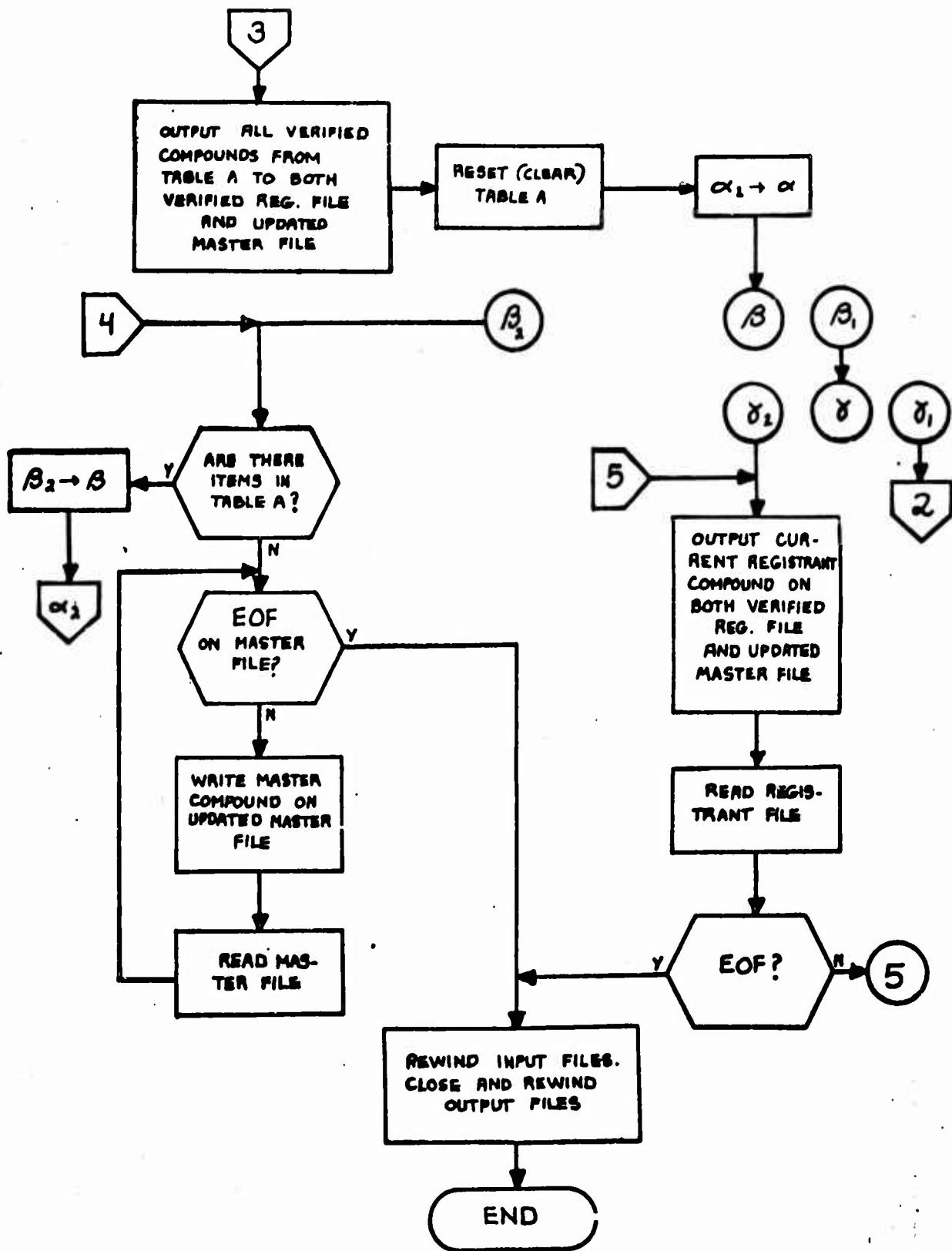


Detail Flow Chart for SELECT (Cont)

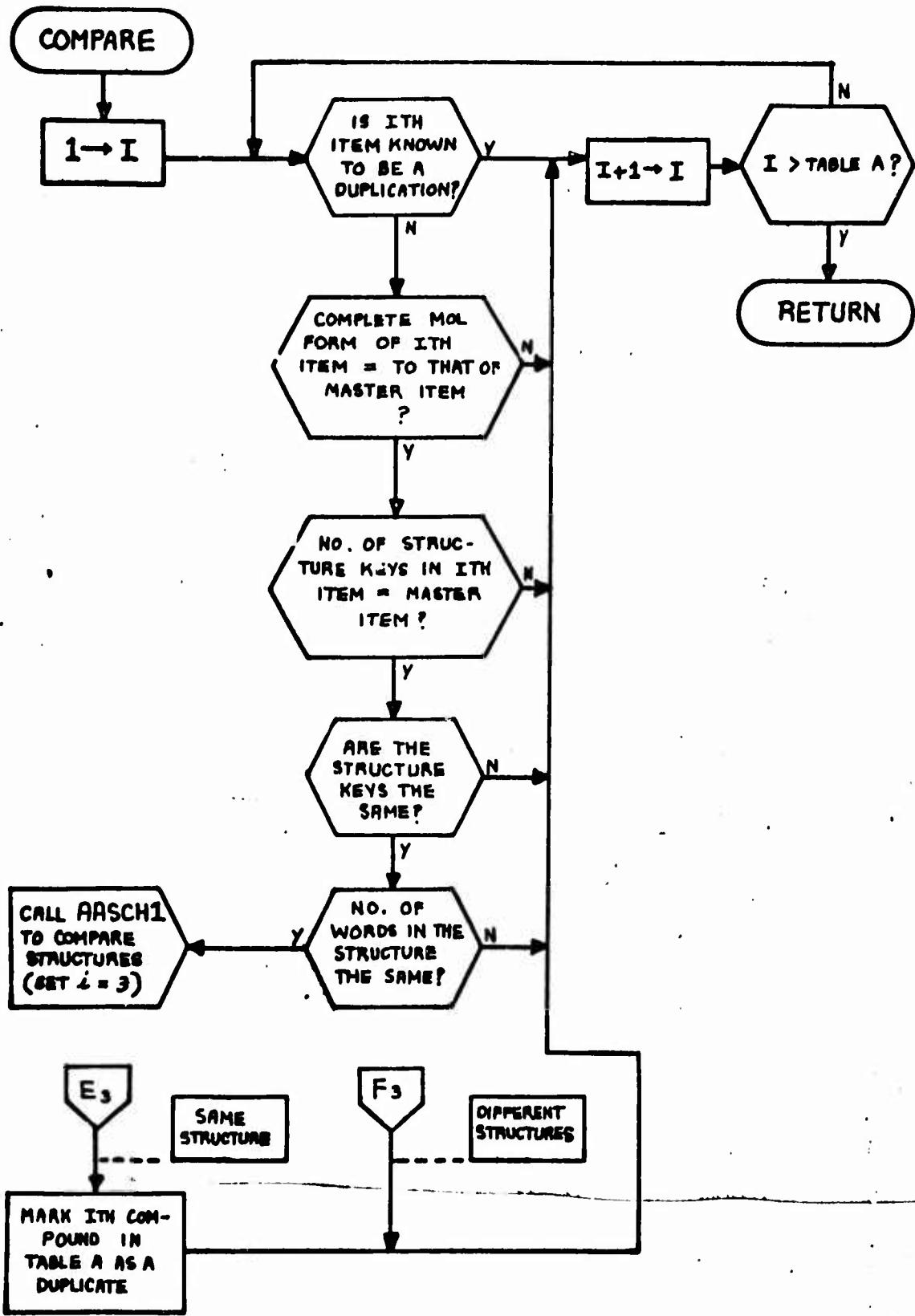


Detail Flow Chart for SELECT (Concl)

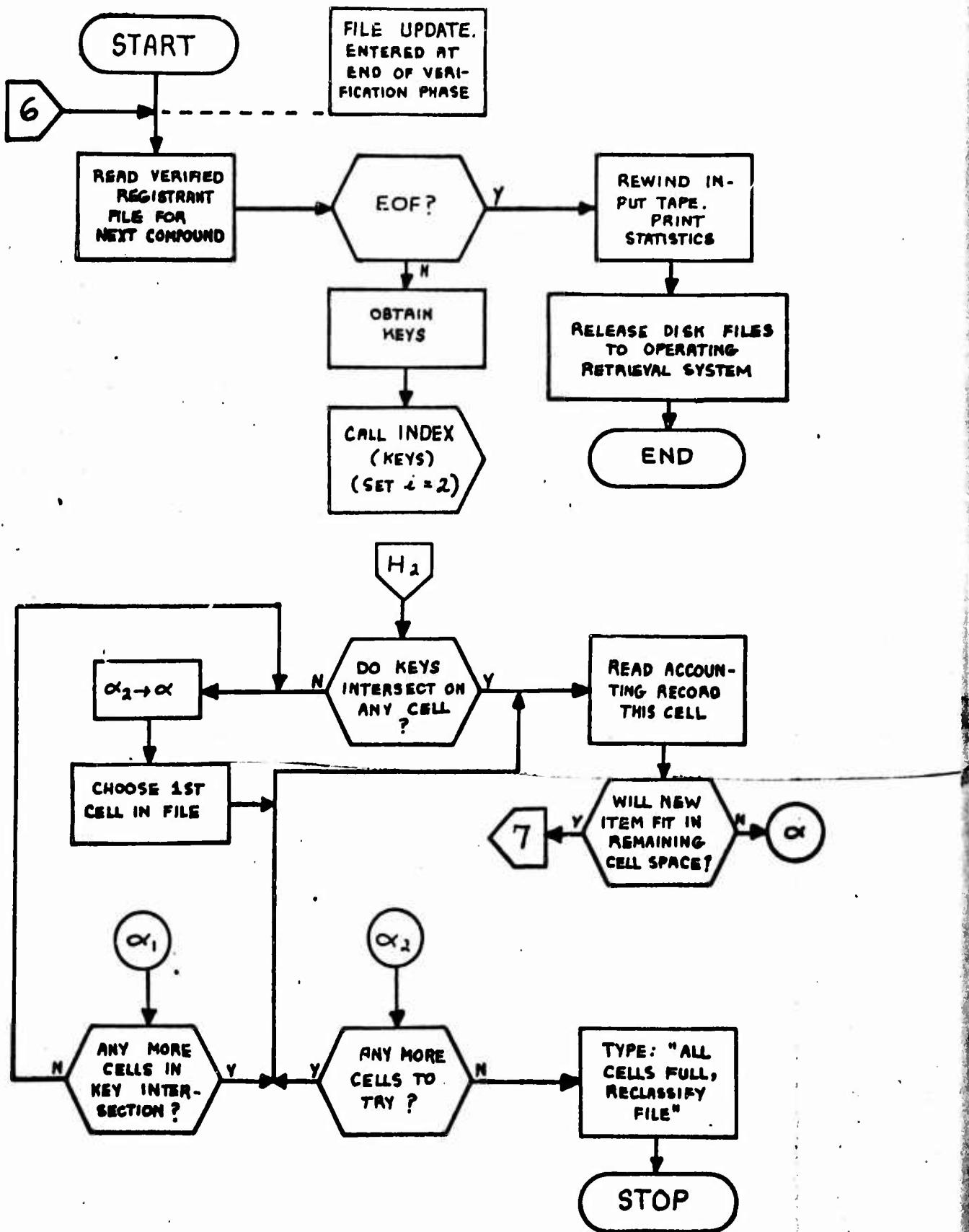




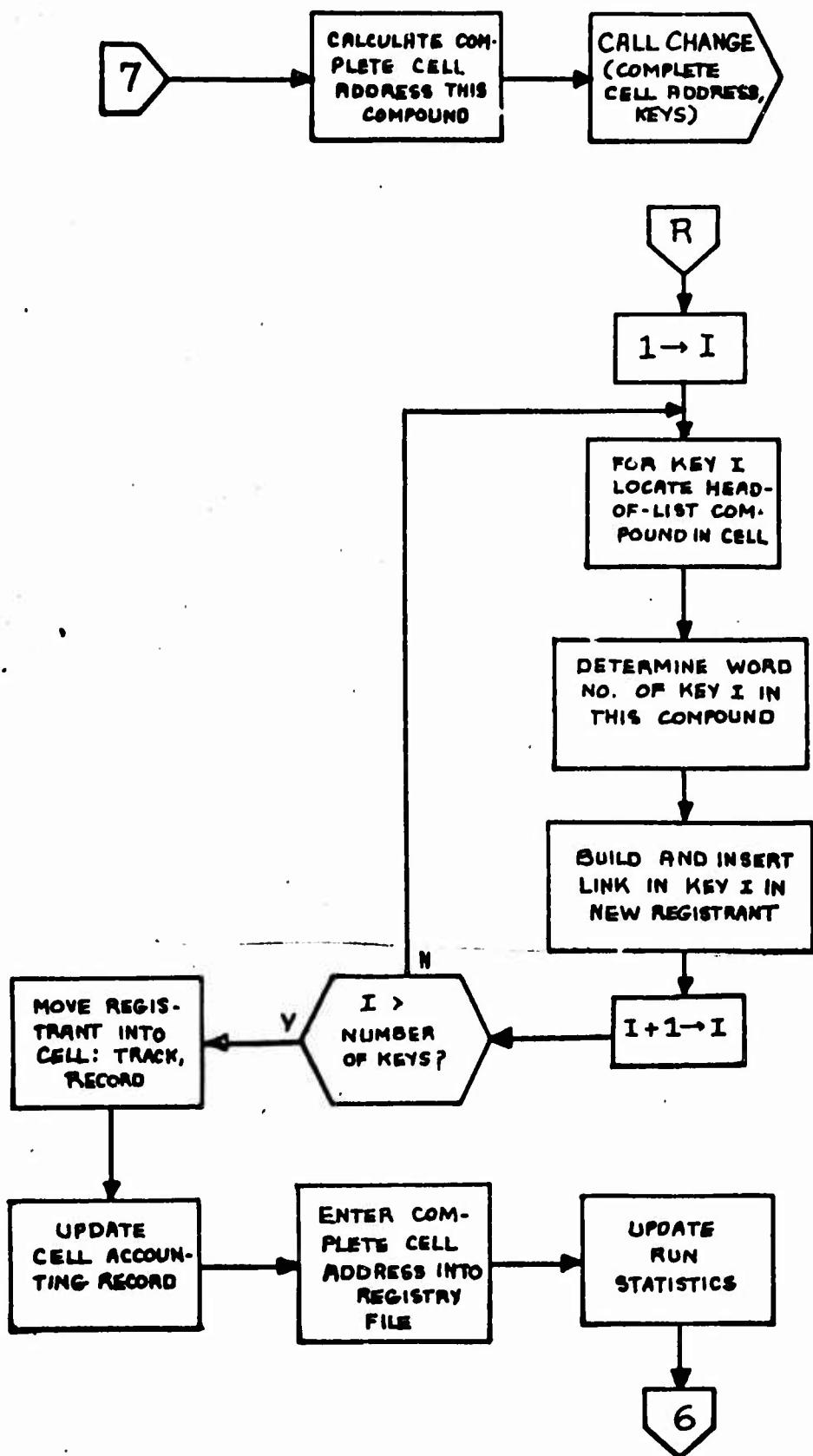
Detail Flow Chart for REGIS (Cont)



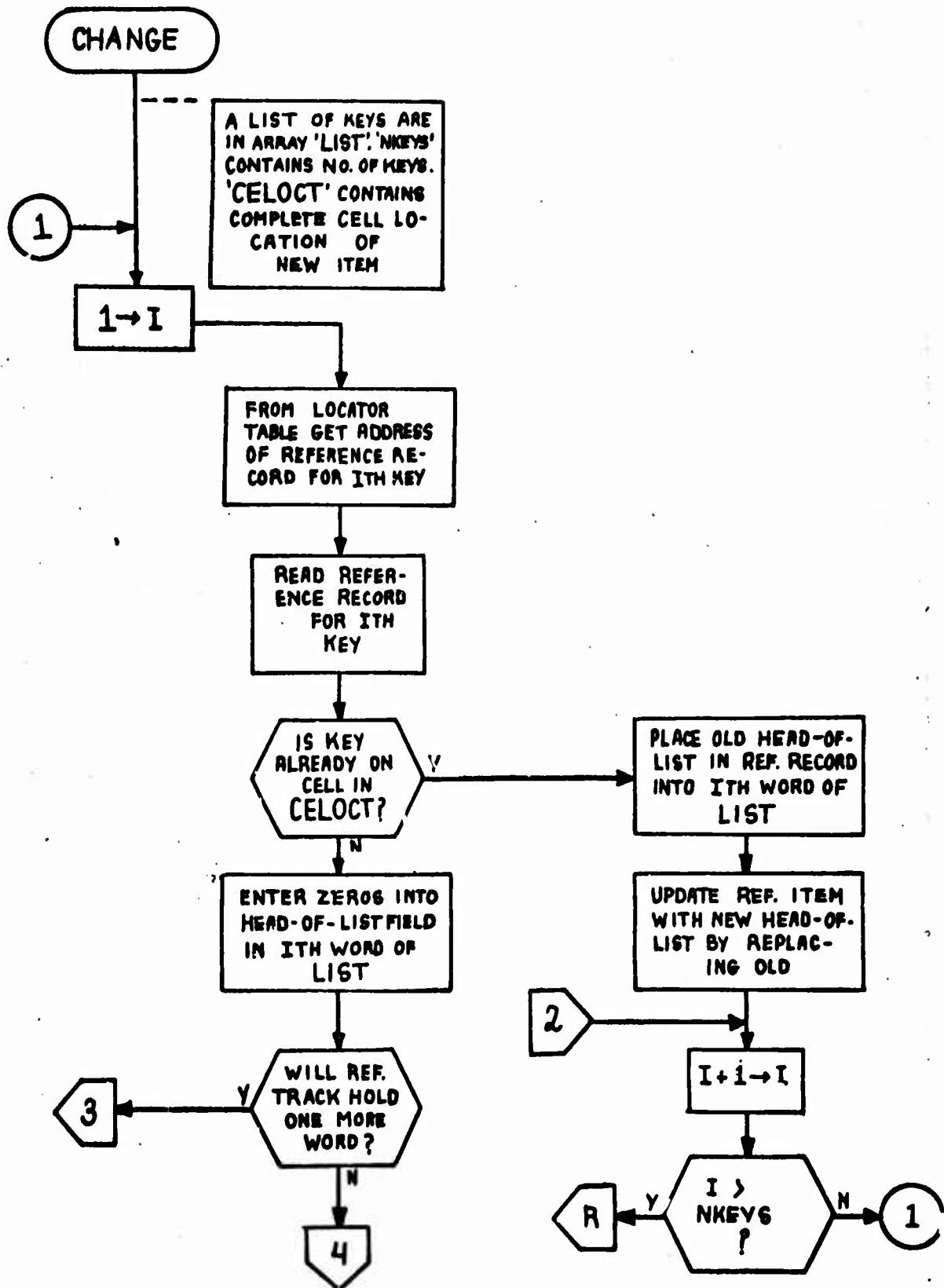
Detail Flow Chart for REGIS (Cont)



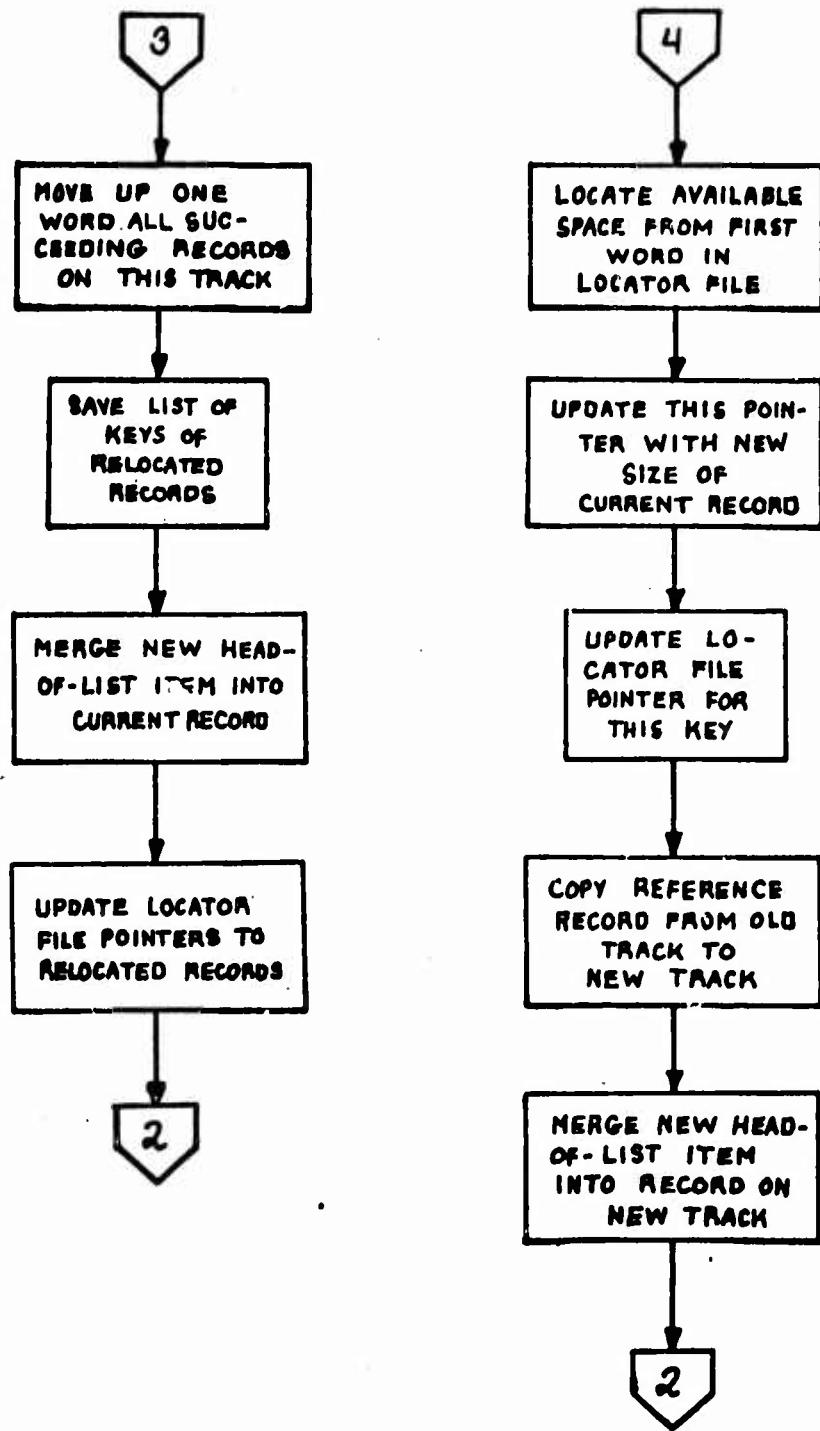
Detail Flow Chart for REGIS (Cont)



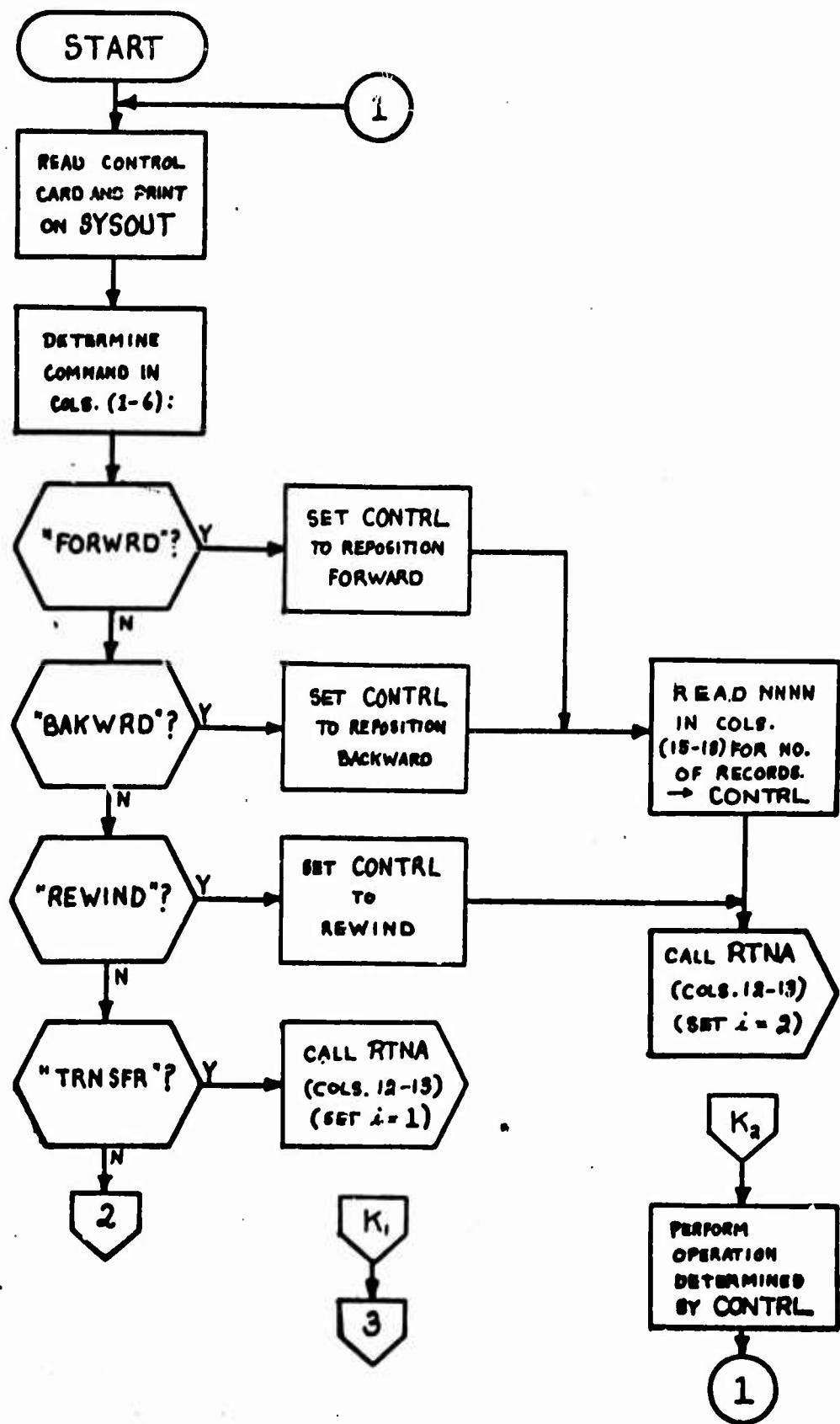
Detail Flow Chart for REGIS (Concl)



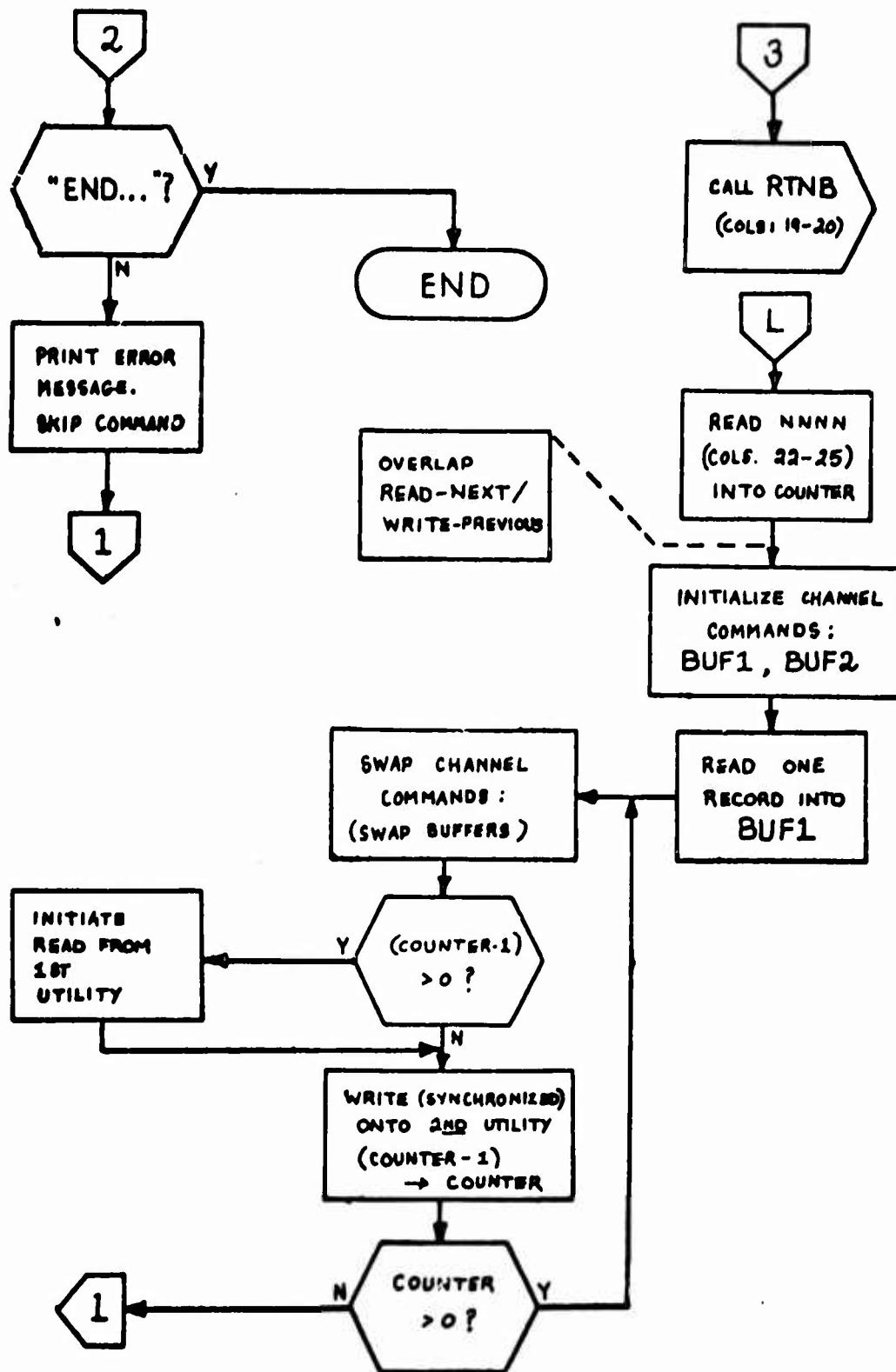
Detail Flow Chart for CHANGE (Cont)



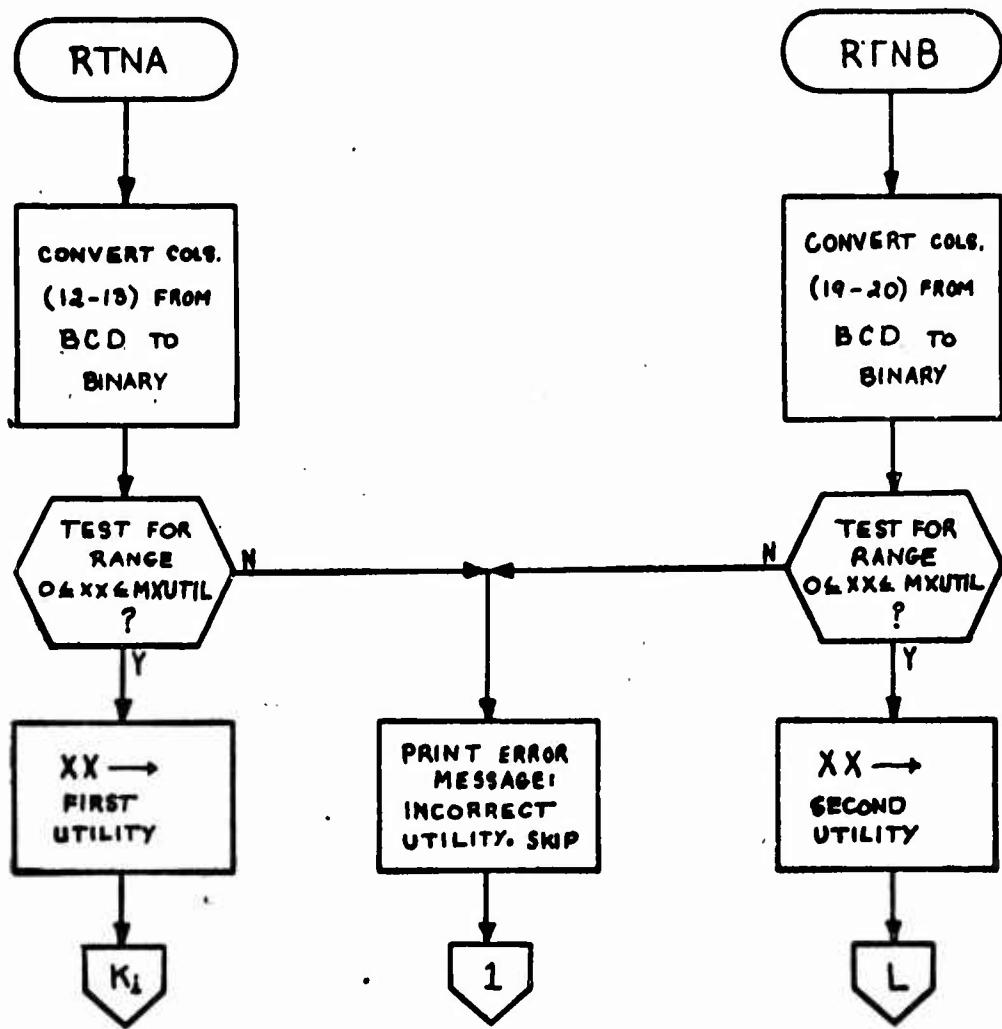
Detail Flow Chart for CHANGE (Concl)



Detail Flow Chart for LOAD (Cont)



Detail Flow Chart for LOAD (Cont)



Detail Flow Chart for LOAD (Concl)

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13. ABSTRACT This volume presents on a more detailed level the computer programs which comprise the automated portion of the experimental CIDS. It consists of the micro flow charts of the programs described in Volume 1.		
14. KEYWORDS Input Output Retrieval Computer programs Software Flow charts System executive Time sharing supervisor Atom-by-atom search Molecular formula search Key search Registry search Structural screen assignment File construction File maintenance Registration of chemical compounds Automatic classification Chemical information		